Dictionary of TRIS Data Elements Included in IDEA

1.0 TRIS Data Elements Included in IDEA

The Integrated Data for Enforcement Analysis (IDEA) system incorporates data from 17 databases. IDEA makes copies of the source database files and incorporates the data into its own "shadow files". Among the databases that IDEA draws from is the Toxic Release Inventory System (TRIS).

1.1 TRIS DESCRIPTION

The Toxic Release Inventory System (TRIS) is the first national database which contains information on toxic pollution by manufacturing industries. As mandated by the Emergency Planning and Community Right-to-Know Act of 1986, the TRIS is publicly accessible. It provides the public and government with information about possible chemical hazards in their communities and thus promotes planning for response to chemical accidents. Manufacturing facilities covered by the 1986 act must report to EPA and to state the amounts of more than 300 specified toxic chemicals that they release directly to the air, water or land, or that they transfer to off-site facilities which treat or dispose of wastes. TRIS includes the following data types:

- Facility identification
- Off-site locations to which wastes containing toxic chemicals are transferred
- Chemical-specific information
- Activities/uses of chemicals
- Maximum amount of chemicals on-site at any one time
- Releases on-site
- Waste treatment methods and efficiency
- Pollution prevention actions

Only certain elements from TRIS are incorporated into IDEA. Furthermore, IDEA has created numerous derived fields; that is, data fields that do not exist in TRIS, but were derived from one or more TRIS fields.

This document contains the TRIS Data Element table as well as definitions of the TRIS data elements that exist in IDEA. The TRIS Data Element table presents the TRIS data elements in related groups that parallel the data's hierarchical relationships. The section following the table lists each TRIS data element definition in alphabetical order. The final section contains multiple appendices related to the definitions.

1.2 TRIS DATA ELEMENTS (BY GROUP)

The table below lists the TRIS elements that appear in IDEA by their database group. If you wish to view TRIS data elements arranged alphabetically, please refer to Attachment 1, *TRIS Data Elements (by data element name)*. The following points should be considered when referencing these data element listings:

- A data element must be indexed in order to be used in an IDEA query. Refer to the 'Index?' column of the table to see whether or not a data element is indexed.

- In order to access sensitive data elements, users must have Enforcement Sensitive access. Refer to the 'Sensitive?' column of the table to see whether or not the data element is enforcement sensitive.

- Italicized data elements indicate single and multiple indexing elements. These elements are created in IDEA to make it easier for the user to search on a portion of a data field, or to search on more than one data field at a time.

- Data elements in the same group are all either repeating fields or not. Refer to the 'Repeat Record' column of the table to see whether or not the data element is a repeating field. In repeating groups, the data element(s) that uniquely determine the record, i.e., the "keyed" elements, are denoted by a 'K' in parentheses.

TRIS Data Elements

Repeat Record	Element Name	Index? (Y//N)	Enf. Sens? (Y/S/N)	Data Type	Length	Name
TRIS Facility ID						
N	TFID	Y	N	Char	15	TRIS Facility ID
Document Control Numbers						
N	RPYR	Y	N	Num	4	Reporting Year
	TCID	Y	N	Char	9	TRI Chemical ID
	TCIDSEQ	N	N	Num	2	Year/TCID Sequence Number
Facility						
N	FLAT	Y	N	Num	5	Facility Latitude
	LONG	Y	N	Num	5	Facility Longitude
	LOCN	*Y*	*N*	*Num*	*8*	*Facility Longitude/Latitude*
	CSFC	Y	N	Num	5	State/County FIPS Code
	PLAT	Y	N	Num	5	Preferred Facility Latitude
	PLONG	Y	N	Num	5	Preferred Facility Longitude
	PLOCN	*Y*	*N*	*Num*	*8*	*Preferred Facility Longitude/Latitude*
	PCOLL	N	N	Char	2	Preferred Collection Method
Historical Facility						
Y	HSEQ(K)	Y	N	Num	4	Historical Facility Sequence Number
	HRPYR	Y	N	Num	4	Historical Location Reporting Year
	HFRG	Y	N	Char	2	Historical Facility Region
	HNME	Y	N	Char	50	Historical Facility Name
	SPNM	*Y*	*N*	*Char*	*15*	*Historical Facility Name Index*
	HHASH	Y	N	Char	100	Hash for Facility Name

TRIS Data Elements						
Repeat Record	Element Name	Index? (Y//N)	Enf. Sens? (Y/S/N)	Data Type	Length	Name
	HHASHWD	*Y*	*N*	*Char*	*4*	*Hash Index for Facility Name*
	HSTR	N	N	Char	40	Historical Facility Street
	HCIT	Y	N	Char	25	Historical Facility City
	HCNY	N	N	Char	25	Historical Facility County
	HSTATE	Y	N	Char	2	Historical Facility State
	HZIP	Y	N	Num	5	Historical Facility Zip, Digits 1-5
	HZP2	Y	N	Num	4	Historical Facility Zip, Digits 6-9
Submissions						
Y	SUBYEAR(K)	Y	N	Num	4	Submissions Year
	SUBSEQ(K)	Y	N	Num	2	Submission Sequence Number
	SICD	Y	N	Num	5	SIC Code
	SIC1ST	Y	N	Num	5	First SIC Code for Year
	UICID	Y	N	Char	12	UIC Identification Number
	RCRID	Y	N	Char	12	RCRIS Handler ID
	DUNSNUM	Y	N	Char	9	Dun & Bradstreet Number
	NPDES	Y	N	Char	9	PCS NPDES Number
	TECHNAM	N	N	Char	45	Technical Contact Name
	TECHNUM	N	N	Char	10	Technical Contact Phone Number
	CHEMGRP	Y	N	Char	1	Chemical Group (A, C, M or O)
	RELFUGI	Y	N	Num	11	Total Releases for CREL 1
	RELPNT	Y	N	Num	11	Total Releases for CREL 2
	RELAIR	Y	N	Num	11	Total Releases for CREL 1-2
	RELWATR	Y	N	Num	11	Total Releases for CREL 3
	RELAW	Y	N	Num	11	Total Releases for CREL 1-3
	RELUNGR	Y	N	Num	11	Total Releases for CREL 4
	RELLAND	Y	N	Num	11	Total Releases for CREL 5
	RELONS	Y	N	Num	11	Total Releases for CREL 1-5
	REPOTW	Y	N	Num	11	Total Releases for CREL 6 & 8
	TRANSNR	Y	N	Num	11	TRANSRR less Recycled/Recovered amounts in CREL 7
	RELOFFS	Y	N	Num	11	Total Releases for CREL 7
	TRANSRR	Y	N	Num	11	Total Releases for CREL 6-8
	RELALL	Y	N	Num	11	Total Releases for 1-8
	TRRECYC	Y	N	Num	11	Total Transfers for Recycling
	TRENREC	Y	N	Num	11	Total Transfers for Energy Recovery
	TRTREAT	Y	N	Num	11	Total Transfers for Treatment
	TRDSPSL	Y	N	Num	11	Total Transfers for Disposal
	TROTHER	Y	N	Num	11	Total Other Off-site Transfers
	TWSTGEN	Y	N	Num	13	Total Waste Generated
Activity						
Y	AUCD(K)	Y	N	Char	2	Activity Use Code
Chemical						
N	DCNO	Y	N	Char	15	Doc Control Number
	STSI	Y	N	Char	1	Submission Trade Secret Indicator
	CTSI	Y	N	Char	1	Chemical Trade Secret Indicator
	RFEF	N	N	Char	1	Reporting for Entire Facility
	SUBS	Y	N	Char	1	Submission Status
	RYSS	*Y*	*N*	*Char*	*3*	*Reporting Year/Submission Status*
	MAXC	N	N	Char	2	Maximum Amount Code
	TCIDIND	N		Num	4	Index to TCID Table
	CRSN	Y	N	Num	9	CAS (Chemical Abstracts Service) Number
	NAME	N	N	Char	70	Chemical Name
	WMIN	N	N	Num	2	Waste Min Index
	WMNA	N	N	Char	1	Waste Min Index NA
	WMAC	N	N	Char	2	Waste Min Action Code
	MIXC	N	N	Char	70	Mixture Comp Identifier
	WMCD	N	N	Char	2	Waste Min Code

TRIS Data Elements						
Repeat Record	Element Name	Index? (Y//N)	Enf. Sens? (Y/S/N)	Data Type	Length	Name
	WMCY	Y	N	Num	13	Waste Min Current Year Quantity
	WMCN	N	N	Char	1	Waste Min Current Year Quantity NA
	WMPY	N	N	Num	13	Waste Min Prior Year Quantity
	WMPN	N	N	Char	1	Waste Min Prior Year Quantity NA
	PCTC	Y	N	Num	5	Waste Min Percent Change
	PCTN	N	N	Char	1	Waste Min Percent Change NA
	TREST	Y	N	Num	13	Total Release Estimate
	RMRLSQN	N	N	Num	13	Remedial Release Quantity
	RMRLSNA	N	N	Char	1	Remedial Release Zero NA
	RCYCACT	Y	N	Num	6	Recycling Activity Index
	RCYCANA	N	N	Char	1	Recycling Activity Index Zero NA
	PPADATA	N	N	Char	1	Additional PPA Data Indicator
	ENRGYON	Y	N	Char	15	Energy Onsite Process Codes
	ENRGYCD	*Y*	*N*	*Char*	*3*	*Energy Onsite Process Codes Index*
	RCYCLON	Y	N	Char	39	Recycled Onsite Process Codes
	RECYCLCD	*Y*	*N*	*Char*	*3*	*Recycled Onsite Process Codes Index*
	FORMTYP	Y	N	Char	1	Form Type (C or R)
Release Reduction Activities						
Y	SRDRCYC(K)	Y	N	Char	25	Source Release Reduction Activities
	CYRQ	N	N	Num	13	Current Year Quantity
	CYRNA	N	N	Char	1	Current Year Zero NA
	PYRQ	N	N	Num	13	Previous Year Quantity
	PYRNA	N	N	Char	1	Previous Year Zero NA
	FYRQ	N	N	Num	13	Following Year Quantity
	FYRNA	N	N	Char	1	Following Year NA
	SYRQ	N	N	Num	13	Second Year Quantity
	SYRNA	N	N	Char	1	Second Year NA
Release						
Y	RSEQ(K)	N	N	Num	4	Sequence Number
	CREL	Y	N	Char	1	Release Medium
	TOFFSID	N	N	Char	15	Transfer Offsite ID Number
	TEPA	Y	N	Char	12	Transfer EPA ID Number
	ODIS	N	N	Char	2	Transfer Site Code
	TSNAME1	N	N	Char	30	Transfer Site Name 1
	TSNAME2	N	N	Char	30	Transfer Site Name 2
	TSSTRT1	N	N	Char	30	Transfer Site Street 1
	TSSTRT2	N	N	Char	30	Transfer Site Street 2
	TSCITY	N	N	Char	25	Transfer Site City
	TSCOUNT	N	N	Char	25	Transfer Site County
	TSSTATE	N	N	Char	2	Transfer Site State
	TSZIPCD	N	N	Char	9	Transfer Site Zip Code
	TSCNTRY	N	N	Char	3	Transfer Site Country
	CBFI	N	N	Char	2	Controlled by Facility Indicator
	TRNG	Y	N	Char	2	Release Emissions Range Code
	REST	Y	N	Num	11	Release Estimate
	RENA	N	N	Char	1	Release Estimate N/A
	REBC	N	N	Char	2	Release Estimate Basis Code
	PWTA	N	N	Num	5	Storm Water Percentage
	SPNA	N	N	Char	1	Storm Water Percentage N/A
	STCD	N	N	Char	1	Stream Code
	STNAME	N	N	Char	70	Stream Name
	LDCD	N	N	Char	3	Land Disposal Code
	TRMT	Y	N	Char	3	Type of Treatment
	RTRS	N	N	Char	1	Release Transfer Record Status
	UICODE	Y	N	Char	3	Underground Injection Code
	MREST	Y	N	Num	11	Release Estimate by Release Medium
	CRELMR	*Y*	*N*	*Char*	*2*	*Release Medium /Estimate*

TRIS Data Elements						
Repeat Record	Element Name	Index? (Y//N)	Enf. Sens? (Y/S/N)	Data Type	Length	Name
Treatments						
Y	TSEQ(K)	N	N	Num	3	Sequence Number
	METHODS	Y	N	Char	31	Waste Treatment Method
	METH	*Y*	*N*	*Char*	*3*	*Waste Treatment Method Index*
	WECD	N	N	Char	2	Wastestream Code
	RICT	N	N	Char	2	Waste Influent Concentration Code
	SETR	N	N	Char	2	Waste Sequence Treatment Indicator
	TREE	Y	N	Num	5	Waste Treatment Efficiency Estimate
	TREN	N	N	Char	1	Waste Treatment Efficiency Estimate NA
	OPID	N	N	Char	2	Operating Data Indicator
	TRST	N	N	Char	1	Treatment Record Status

2.0 TRIS Data Element Definitions

The following is a list of all TRIS data elements and TRIS-derived elements that appear in IDEA. The data elements are listed alphabetically. Detailed explanations and codes are contained in the appendices.

AUCD (Activity Use Code) A two-character code describing the activity or use of the chemical at the facility. Refer to Appendix K.

CBFI (Controlled by Facility Indicator) A two-character code which indicates whether the off-site location is owned by or controlled by the reporting facility or its parent company.

Y = Yes
N = No

CHEMGRP (Chemical Group) A one-character code indicating the type of chemical that is summarized in the RELFUGI, RELPNT, RELAIR, RELWATR, RELAW, RELUNGR, RELLAND, RELONS, or REPOTW field.

A = All chemicals
C = Carcinogen
O = Ozone Depleter
M = Metals
H = Hazardous Air Pollutant
V = Volatile Organic Compound
B = Baseline; a chemical that had to be reported in 1990 and still has to be reported for trend analysis

CREL (Release Medium) A one-character code for the release of chemical(s) from the facility to the environment, where CODE:

1 = Non-point Air
2 = Point Air
3 = Water
4 = Underground
5 = Land
6 = POTW (This record contains address data for all Reporting Years. For Reporting Years 1987 – 1990. This record also contains release data. Use release-medium = 8 for Reporting Years 1991 to present)
7 = Off-site
8 = POTW (rel-est, rel-est-na, rel-emiss-range-code, rel-est-basis-code for RY91+)

CRELMR (Release Medium/Estimate) A multiple element index that combines the code for Release Medium (CREL) with the Release Estimate (MREST) into a single element.

CRSN (CAS (Chemical Abstracts Service) Number) A nine-digit number assigned to a chemical by Chemical Abstracts Service (CAS) as a unique identifier for that chemical. Refer to Appendix A. If it represents a mixture, use NA to validate the table.

CSFC (State/County FIPS Code) A five-digit code with two character and three character FIPS code corresponding to FACIL-STATE and FACIL-COUNTY.

CTSI (Chemical Trade Secret Indicator) A one-character field that indicates whether the reporting facility claims the identity of the chemical or chemical category as a trade secret.

Y = Yes
N or Blank = No
Blank for RY1988+

CYRNA (Current Year Zero NA) A one-character field that indicates if zero or 'not applicable' was entered for the amount released current year quantity.

0 = submitter zero
Y = NA

CYRQ (Current Year Quantity) A thirteen-digit field containing the quantity of chemical released into the environment in the current reporting year. If the value in this field is greater then zero, the following field (CYRNA) will be blank.

DCNO (Doc Control Number) A fifteen-character field representing the unique identification assigned to each submission. (Some IDs are manually altered and do not conform to the following format.)

Format: TTYYNNNNNNNNNSS, where:
TT = Document type
YY = Reporting year
NNNNNNNNN = Number with check digit
SS = State Code

DUNSNUM (Dun & Bradstreet Number) A unique nine-character identifying number assigned by Dun and Bradstreet to the reporting facility.

ENRGYCD (Energy Onsite Process Codes Index) A single element index that allows users to search the ENRGYON (Energy Onsite Process Codes) field. Using the ENRGYCD (Energy Onsite Process Codes Index) data element, users can search for an occurrence of any energy recovery process code in any position of the ENRGYON field. See the definition of ENRGYON for code values.

ENRGYON (Energy Onsite Process Codes) A fifteen-character field containing up to four three-character codes that identify the energy recovery processes used on-site. Each three-character process code is separated by a space.

U01 Industrial Kiln
U02 Industrial Furnace
U03 Industrial Boiler
U09 Other Energy Recovery Methods

FLAT (Facility Longitude) A five-digit field containing the latitude of the reporting facility. This is a signed field.

FORMTYP (Form Type Indicator) A one-character indicator identifying the form type. Valid values are:

R = Form R
C = Form A (Certification statement)

FYRNA (Released Following Year Zero NA) A one-character code indicating if zero or 'not applicable' was entered for the amount Released Following Year Quantity.

0 = submitter zero
Y = NA

FYRQ (Released Following Year Quantity) A thirteen-character field for the quantity of the chemical released into the environment in the following reporting year. If the value in this field is greater then zero, the following field (FYRNA) will be blank.

HCIT (Historical Facility City) A twenty-five character field containing the name of the city in which the reporting facility was located.

HCNY (Historical Facility County) A twenty-five character field containing the name of the county in which the reporting facility was located.

HFRG (Historical Facility Region) A two-character field containing the EPA Region in which the facility was located. (01-10)

HHASH (Hash for Facility Name) A field that contains the hash name of the facility name. The hash name includes the first letter of each word in the facility name and the next three consonants thereafter. The hash name excludes vowels unless they are the first letter in a name. If the word contains consecutive double consonants (e.g., bottle), only one is included in the hash name (e.g., btl). Each word of the facility name occupies four characters of the HASH field; spaces are inserted for those words whose hash name is not four characters long.

HHASHWD (Hash Index for Facility Name) A single element index that allows the user to search the HHASH field for any word in the facility name regardless of its position in the HHASH field.

HNME (Historical Facility Name) A fifty-character, two line, field containing the name for the facility. This field contains Historical Facility Name-1 and Historical Facility Name-2.

HRPYR (Historical Location Reporting Year) A four-digit field containing the historical reporting year.

HSEQ (Historical Facility Sequence Number) A four-digit code containing the facility's sequence number. The smaller the number the more recent the name and address for the facility. For example, a '1' indicates the current name and address of the facility. If a facility has never changed its name or address then it will not have any numbers larger than one.

HSTATE (Historical Facility State) A two-character state abbreviation for the facility.

HSTR (Historical Facility Street) A forty-character, two line, field for the street address of the reporting facility. This field contains Historical Facility Street-1 and Historical Facility Street-2.

HZIP (Historical facility Zip Code, Digits 1-5) A five-digit code assigned by the U.S. Postal Service for use in the facility address.

HZP2 (Historical Facility Zip Code, Digits 6-9) A four-digit extension to the code assigned by the U.S. Postal Service for use in the facility address.

LDCD (Land Disposal Code) A three-character code corresponding to the type of land disposal used for the toxic chemical at the facility; values are:

D02 = Onsite landfill (RY87-95)
D03 = Land treatment/application/farming
D05 = Surface impoundment
D75 = RCRC Subtitle C landfills

D76 = Other landfills
D99 = Other disposals

LOCN (Facility Longitude/Latitude) A multiple element index that combines the Facility Longitude (LONG) and the Facility Latitude (FLAT) data elements into a single field. The first four digits of the LOCN field contain the longitude coordinates while the last four digits of LOCN contain the latitude coordinates.

LONG (Facility Longitude) A five-digit field containing the longitude of the reporting facility. This is a signed field.

MAXC (Maximum Amount Code) A two-character code that indicates the maximum quantity of the chemical at the facility, at any time during the calendar year. Refer to Appendix C.

METH (Waste Treatment Method Index) A single element index that allows users to search the METHODS (Waste Treatment Method) field. Using the METH (Waste Treatment Method Index) data element, users can search for an occurrence of any waste treatment method code in any position of the METHODS field. See Appendix I for waste treatment method codes.

METHODS (Waste Treatment Method) A thirty-one character field containing up to eight three-character codes corresponding to the waste treatment methods used by the facility. See Appendix I for waste treatment method codes.

MIXC (Mixture Component Identifier) A seventy-character field that contains the mixture component identity or trade name product that contains a 313 chemical. This field name is used when the specific chemical name or CAS number is not known.

MREST (Release Estimate by Release Medium) An eleven-digit field indicating the amount of chemical released by type of media. See Appendix T for the types and codes of media.

NAME (Chemical Name) A seventy-character field containing the name of the chemical, or the chemical category listed in Section 372.45 of the regulation. Refer to Appendix A. If it is a mixture, use NA to validate the table. If the name is a trade secret, a generic chemical name replaces a trade secret name in this field.

NPDES (NPDES Permit Number) A nine-character permit number assigned to a facility by EPA or a state under the authority of the Clean Water Act for the National Pollution Discharge Elimination System (NPDES).

ODIS (Transfer Site Code) A two-character code for the off-site transfer facility to which the toxic chemical waste was transferred; a sequential number assigned by system.

OPID (Operating Data Indicator) A two-character code indicating whether or not information given on treatment was based on operating data.

Y = Yes
N = No

PCOLL (Preferred Collection Method) A two-character code representing the EPA's preferred geographic coordinate collection method code for the reporting facility. A method used to determine the latitude and longitude. Refer to Appendix L.

PCTC (Waste Minimization Percentage Change) A five-digit field containing the percentage, by weight, of the reported chemical that is destroyed or chemically converted by a waste minimization project.

PCTN (Waste Minimization Percentage Change NA) A one-character field indicating if 'not applicable' was entered for the waste minimization percentage change.

Y = NA

PLAT (Preferred Facility Latitude) A five-digit field containing EPA's preferred geographic latitude estimation of the reporting facility. The value for latitude is in decimal degrees. This is a signed field.

PLOCN (Preferred Facility Longitude/Latitude) A multiple element index that combines the Preferred Facility Longitude (PLONG) and the Preferred Facility Latitude (PLAT) data elements into a single field. The first four digits of the PLOCN field contain the longitude coordinates while the last four digits of PLOCN contain the latitude coordinates.

PLONG (Preferred Facility Longitude) A five-digit field containing EPA's preferred geographic longitude estimation for the reporting facility. The value for longitude is in decimal degrees. This is a signed field.

PPADATA (Additional PPA Data Indicator) A one-character field containing a 'Y' or 'N' (Yes or No, respectively) indicating optional additional information on source reduction, recycling, or pollution control activities implemented for the chemical included with submissions.

PWTA (Storm Water Percentage) A five-digit field containing the percentage of the total quantity (by weight) of the chemical released to water that was contributed by storm water runoff.

PYRNA (Previous Year Zero NA) A one-character code indicating if zero or 'not applicable' was entered for the amount released in the Previous Year Quantity.

0 = submitter zero
Y = NA

PYRQ (Previous Year Quantity) A thirteen-digit field containing the quantity of the chemical released into the environment in the previous reporting year. If the value in this field is greater than zero, the following field (PYRNA) will be blank.

RCRID (RCRIS Handler ID) A twelve-character EPA identification number assigned to facilities covered by hazardous waste regulations under the Resource Conservation and Recovery Act (RCRA). Facilities not covered by RCRA are not likely to have an assigned ID number. If a facility is not required to have an ID number, enter N/A.

RCYCACT (Recycling Activities Index) A six-character field containing the ratio of production in the reporting year to production in the prior year or, where appropriate, an activity index based on another variable involved in the production process that is the primary influence on waste characteristics or volumes.

RCYCANA (Recycling Activity Index Zero NA) A one-character code that indicates if zero or 'not applicable' was entered for the recycling activity index ratio.

0 = submitter zero
Y = NA

RCYCLCD (Recycled Onsite Process Codes Index) A single element index that allows users to search the RCYCLON (Recycled Onsite Process Codes) field. Using the RCYCLCD (Recycled Onsite Process Codes Index) data element, users can search for an occurrence of any recycled process code in any position of the RCYCLON field. See Appendix F for recycled onsite process code values.

RCYCLON (Recycled Onsite Process Codes) A thirty-nine character field containing up to ten three-character codes that identify the recycling processes used onsite. See Appendix F for recycled onsite process code values.

REBC (Release Estimate Basis Code) A two-character code representing the principal method used to calculate the total release estimate; values are:

M = Based on monitoring data
C = Based on mass balance calculations
E = Based on published emission factors
O = Other

RELAIR (Total Releases for CREL 1-2) An eleven-digit field containing the total, in pounds per year, of both point and non-point air releases for all types of chemicals for a given year.

RELALL (Total Releases for 1-8) An eleven-digit field containing the total of all releases and transfers in pounds per year for all types of chemicals to all types of media.

RELAW (Total Releases for CREL 1-3) An eleven-digit field containing the total releases in pounds per year for all types of chemicals to air and water.

RELFUGI (Total Releases for CREL 1) An eleven-digit field containing the total non-point air (fugitive air) releases in pounds per year for all types of chemicals.

RELLAND (Total Releases for CREL 5) An eleven-digit field containing the total land releases in pounds per year for all types of chemicals.

RELOFFS (Total Releases for CREL 7) An eleven-digit field containing the total off site transfers, but not to POTWs, in pounds per year for all types of chemicals.

RELONS (Total Releases for CREL 1-5) An eleven-digit field containing the total of all air, land and water releases in pound per year for all types of chemicals.

RELPNT (Total Releases for CREL 2) An eleven-digit field containing the total point air source releases in pound per year for all types of chemicals.

RELUNGR (Total Releases for CREL 4) An eleven-digit field containing the total underground injections in pounds per year for all types of chemicals.

RELWATR (Total Releases for CREL 3) An eleven-digit field containing the total releases to water in pounds per year for all types of chemicals.

REPOTW (Total Releases for CREL 6 & 8) An eleven-digit field containing the total POTW transfers in pounds per year for all types of chemicals.

RENA (Release Estimate NA) A one-character code that indicates if ‘not applicable’ was entered for the release estimate.

Y = NA

REST (Release Estimate) An eleven-digit field containing an estimate of the amount of toxic chemical released or transferred from the reporting facility.

RFEF (Reporting for Entire Facility) A one-character code that indicates whether the information covers an entire or partial facility.

A = Entire
B = Partial
Blank = No response

RICT (Waste Influent Concentration Code) A two-character code corresponding to the range concentration of the toxic chemical in the wastestream (i.e., influent).

1	Greater than 1 percent
2	100 parts per million (0.01 percent) to 1 percent (10,000 parts per million)
3	1 part per million to 100 parts per million
4	1 part per billion to 1 part per million
5	Less than 1 part per billion
NA	Blank

RMRLSNA (Remedial Release Zero/NA) A one-character code that indicates zero or 'not applicable' was entered for the remedial release quantity.

0 = submitter zero
Y = NA

RMRLSQN (Remedial Release Quantity) A thirteen-digit field containing the quantity of the chemical released to the environment in the reporting year as a result of remedial actions, catastrophic events, or other one-time events not associated with the production processes. If the value in this field is greater than zero, the Remedial Release field (RMRLSNA) will be blank.

RPYR (Reporting Year) A four-digit field containing the calendar year to which the reported information applies, this is not the year the report is submitted. Information for the 1996 Reporting Year must be submitted before July 1, 1997.

RSEQ (Sequence Number) A four-digit field containing the sequence number for the release medium.

RTRS (Release Transfer Record Status) A one-character field indicating the status of the release transfer record.

RYSS (Reporting Year/Submission Status) A multiple element index that combines the Reporting Year (RPYR) data element and the Submission Status (SUBS) into a single field. The first two characters of RYSS indicate the reporting year while the last character indicates the submission status for that year. See the definition for SUBS (Submission Status) for submission status codes and values.

SETR (Waste Sequence Treatment Indicator) A two-character code that indicates if the treatment steps have been used in sequence to estimate the treatment efficiency of the overall treatment process.

Y = if steps were used.

SIC1ST (First SIC Code for Year) A four-digit field containing the primary Standard Industrial Classification (SIC). Refer to Appendix B.

SICD (SIC Code) A four-digit Standard Industrial Classification (SIC) code. Refer to Appendix B.

SPNA (Storm Water Percentage NA) A one-character indicator reflecting 'not applicable' or 'no data'.

Y = "N/A"
D = No data

SPNM (Historical Facility Name Index) A single element index that displays the first fifteen characters of the Historical Facility Name (HNME) field. See the definition for HNME (Historical Facility Name) for more details.

SRDRCYC (Source Release Reduction Activities) A twenty-five character field containing a three character code that indicates the method used for source reduction activities in the reporting year. Refer to Appendix J.

STCD (Stream Code) A one-character code for a surface water body or receiving stream to which the chemical discharges directly; there are 36 possible stream codes formatted as follows:

A through **Z** = one stream entry per letter
1 through **0** = one stream entry per number

STNAME (Stream Name) A seventy-character field containing the name of the receiving stream or water body as it appears on the NPDES permit for the reporting facility.

STSI (Submission Trade Secret Identifier) A one-character indicator signifying that the toxic chemical being reported is claimed to be trade secret.

Y = Yes
N = No

SUBS (Submission Status) A one-character code that indicates the status of the submission.

A = Full submission
U = Changed submission
E = Submission with errors
C = Validated submission

SUBSEQ (Submission Sequence Number) A two-digit field containing the sequence number of the submission.

SUBYEAR (Submissions Year) A four-digit field containing the reporting year in which the reported activities occurred.

SYRNA (Second Year Zero NA) A one-character code that indicates if zero or 'not applicable' was entered for the amount released in the Second Year Quantity.

0 = submitter zero
Y = NA

SYRQ (Second Year Quantity) A thirteen-digit field containing the quantity of the chemical released into the environment in the second reporting year. If the value in this field is greater than zero, the following field (SYRNA) will be blank.

TCID (Tri-Chemical ID) A nine-character field that contains the CAS number/category code reported for listed chemicals or "MIXTURE" mixtures.

TCIDSEQ (TCID Sequence Number) A two-digit field containing the sequence number for the Tri-Chemical ID.

TECHNAM (Technical Contact Name) A forty-five character field containing the name of an individual whom the EPA, or state officials, may contact if clarification is required for the information reported on the form. This may not be the person who prepares the report.

TECHNUM (Technical Contact Phone Number) A ten-character field containing the telephone number, including the area code, of the technical contact.

TEPA(Transfer EPA ID Number) A twelve character identification number assigned to the off-site transfer facility. This facility is covered by the regulations of Resource Conservation and Recovery Act (RCRA).

TFID (TRI-Facility ID) A fifteen-character field containing a generated facility identification code using name, address and ZIP code. Format: ZZZZZNNNNNSSSSS, where:

ZZZZZ = Zip code
NNNNN = First five consonants of the name
SSSSS = First five letters and/or numbers in the street address

Some IDs are manually altered and do not conform to the above format.

TOFFSID (Transfer Off-site ID) A fifteen-character generated identification code (ZZZZZNNNNNSSSSS), compiled from the site where: N = name, S = address, and Z = zip code to uniquely identify off-site transfer facilities.

ZZZZZ = Zip code of the Off-site
NNNNN = Off-site name
SSSSS = Off-site address

TRANSNR (TRANSRR less Recycled/Recovered amounts in CREL - 7) An eleven-digit field containing the total amount transferred off site, not to a POTW. The amount is in pounds per year for all chemicals for a given year.

TRANSRR (Total Releases for CREL 6-8) An eleven-digit field containing the total amount transferred off site including transfers to a POTW. The amount is in pounds per year for all types of chemicals for a given year.

TRDSPSL (Total Transfers for Disposal) An eleven-digit field containing the total transfers for disposal in pounds per year for all types of chemicals in a given year.

TREE (Waste Treatment Efficiency Estimate) A five-digit estimate of the percentage of the toxic chemical removed from the wastestream. The efficiency represents any destruction, biological degradation, chemical conversion, or physical removal of the chemical from the wastestream being treated.

Y = NA

TREN (Waste Treatment Efficiency Estimate NA) A one-character code that indicates if 'not applicable' was entered for the waste treatment efficiency estimate.

TRENREC (Total Transfers for Energy Recovery) An eleven-digit field containing the total transfers for energy recovery in pounds per year for all types of chemicals in a given year.

TREST (Total Release Estimate) A thirteen-digit field that contains an estimate of the total releases for all chemicals in pounds per year for all types of chemicals in a given year.

TRMT (Type of Treatment) A three-character code that identifies the type of treatment or disposal method used by off-site location. Refer to Appendix G.

TRNG (Release Emissions Range Code) A two-character code used to indicate the amount of the toxic chemical released annually from the reporting facility. The midpoint value is used for cumulative total toxic chemical release information.

0 = zero
1 = 1 –10 (5 = midpoint)
2 = 1 – 499 (250 = midpoint)
3 = 11 – 499 (250 = midpoint)
4 = 500 – 999 (750 = midpoint)

TROTHER (Total Other Off-site Transfers) An eleven-digit field containing the total of all off-site transfers, other than those for disposal, energy recovery, recycling and treatment, in pounds per year for all types of chemicals in a given year.

TRRECYC (Total Transfers for Recycling) An eleven-digit field containing the total transfer for recycling in pounds per year for all types of chemicals in a given year.

TRST (Treatment Record Status) A one-character code representing the status of the treatment record.

TRTREAT (Total Transfers for Treatment) An eleven-digit field containing the total transfers for treatment in pounds per year for all types of chemicals in a given year.

TSCITY (Transfer Site City) A twenty-five character field containing the name of the city in which the off-site transfer facility is located.

TSCNTRY (Transfer Site Country) A three-character field containing the country code for an off-site transfer facility outside of the United States. Refer to Appendix H for more information.

TSCOUNT (Transfer Site County) A twenty-five character field containing the name of the county in which the off-site transfer facility is located.

TSEQ (Sequence Number) A three-digit sequence in which the treatment records are entered. The starting value for each DCN will always be 001.

TSNAME1 (Transfer Site Name 1) A thirty-character field containing the first line for the name of the off-site transfer facility to which the chemical is sent.

TSNAME2 (Transfer Site Name 2) A thirty-character field containing the second line for the name of the off-site transfer facility to which the chemical is sent.

TSSTATE (Transfer Site State) A two-character state abbreviation for the off-site transfer facility.

TSSTRT1 (Transfer Site Street 1) A thirty-character field containing the first line of the street address of the off-site transfer facility.

TSSTRT2 (Transfer Site Street 2) A thirty-character field containing the second line of the street address of the off-site transfer facility.

TSZIPCD (Transfer Site Zip Code) A nine-character U.S. Postal Service zip code for the address of an off-site transfer facility.

TWSTGEN (Total Waste Generated) A thirteen-digit field containing the total amount of waste generated at a facility in pounds per year for a given year.

UICID (UIC Identification Number) A twelve-digit Underground Injection Code (UIC) identification number assigned by the EPA or the State, under the authority of the Safe Drinking Water Act, to a facility that injects a chemical containing waste into Class I Deep Wells.

UICODE (Underground Injection Code) A three-character code corresponding to the type of underground injection used for the toxic chemicals at the facility. Values are:

UI0 = Underground Injection on-site (RY87-95)
UI1 = Underground Injection on-site class I wells
UI2 = Underground Injection on-site class II-V wells

WECD (Wastestream Code) A two-character code that corresponds to the general wastestream type:

A = Gaseous
W = Wastewater
L = Liquid waste

S = Solid waste
NA = Not applicable

WMAC (Waste Minimization Action Code) A two-character code that corresponds to reason-for-action taken to reduce the amount of the chemical being released from the facility. Refer to Appendix D.

WMCD (Waste Minimization Code) A two-character code that corresponds to the type of waste minimization activity. Refer to Appendix E.

WMCN (Waste Minimization Current Year Quantity NA) A one-character code that indicates if 'not applicable' was entered for the waste minimization current year quantity.

Y = NA

WMCY (Waste Minimization Current Year Quantity) A thirteen-digit field containing the toxic chemical waste, in pounds, for the reporting year of the reported chemical.

WMIN (Waste Minimization Index) A two-digit ratio of reporting year production, or use, to production in the year prior to implementation of the waste minimization effort, calculated to most closely reflect activities involving the chemical.

WMNA (Waste Minimization Action Code NA) A one character code that indicates if 'not applicable' was entered for the waste minimization index.

Y = NA

WMPN (Waste Minimization Prior Year Quantity NA) A one-character code that indicates if 'not applicable' was entered for the waste minimization for the prior year quantity.

Y = NA

WMPY (Waste Minimization Prior Year Quantity) A thirteen-character field that contains the toxic chemical waste, in pounds, for the prior year.

Appendix A

CAS Numbers for TRI Codes

Appendix A: CAS Numbers for TRI Codes

The following list contains all of the toxic chemicals and their CAS numbers listed in Section 313 for Reporting Year 1996. The *Concern* column abbreviations are defined as follows: CAAC – Clean Air Act, CARC – carcinogen, and 33/50 – high-priority TRI chemicals cited for reduction goals (33% reduction in 1992 [Reporting Year 1993] and 50% reduction in 1994 [Reporting Year 1995]). The highlighted chemicals in this list are those that have been delisted in 1996 or previous reporting years.

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
004080313	1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride		
000812044	1,1 Dichloro-1,2,2-trifluoroethane		
000354110	1,1,1,2-Tetrachloro-2-fluoroethane		
000630206	1,1,1,2-Tetrachloroethane		
000071556	1,1,1-trichloroethane	CAAC 33/50	
000071556	1,1,1-Trichloroethane	CAAC 33/50	
000354143	1,1,2,2-Tetrachloro-1-fluoroethane		
000079345	1,1,2,2-Tetrachloroethane	CAAC	
000079005	1,1,2-Trichloroethane	CAAC	
013474889	1,1-Dichloro-1,2,2,3,3-pentafluoropropane		
111512562	1,1-Dichloro-1,2,3,3,3-pentafluoropropane		
001717006	1,1-Dichloro-1-fluoroethane		
000057147	1,1-Dimethyl hydrazine	CAAC CARC	
000096184	1,2,3-Trichloropropane	CARC	
000120821	1,2,4-Trichlorobenzene	CAAC	
000095636	1,2,4-Trimethylbenzene		
000106887	1,2-Butylene oxide	CAAC	
000096128	1,2-Dibromo-3-chloropropane	CAAC CARC	
000106934	1,2-Dibromomethane	CAAC CARC	
000422446	1,2-Dichloro-1,1,2,3,3-pentafluoropropane		
000354234	1,2-Dichloro-1,1,2-trifluoroethane		
000431867	1,2-Dichloro-1,1,3,3,3-pentafluoropropane		
001649087	1,2-Dichloror-1,1-difluoroethane		
000095501	1,2-Dichlorobenzene		
000107062	1,2-Dichloroethane	CAAC CARC	
000540590	1,2-Dichloroethylene		
000078875	1,2-Dichloropropane	CAAC	
000122667	1,2-Diphenylhydrazine	CAAC CARC	
000095545	1,2-Phenylenediamine		
000615281	1,2-Phenylenediamine dihydrochloride		
000106990	1,3-Butadiene	CAAC CARC	
000507551	1,3-Dichloro-1,1,2,2,3-pentafluoropropane		
136013791	1,3-Dichloro-1,1,2,33-pentafluoropropane		
000541731	1,3-Dichlorobenzene		
000542756	1,3-Dichloropropylene		
000108452	1,3-Phenylenediamine		
000764410	1,4-Dichloro-2-butene		

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
000106467	1,4-Dichlorobenzene	CAAC CARC	
000123911	1,4-Dioxane	CAAC CARC	
000624180	1,4-Phenylenediamine dihydrochloride		
000082280	1-Amino-2-methylanthraquinone	CARC	
035691657	1-Bromo-1-(Bromomethyl)-1,3-propanedicarbonitrile		
000354256	1-Chloro-1,1,2,2-tetrafluoroethane		
000075683	1-Chloro-1,1-difluoroethane		
128903219	2,2-Dichloro-1,1,1,3,3-pentafluoropropane		
000306832	2,2-Dichloro-1,1,1-trifluoroethane		
002655154	2,3,5-Trimethylphenyl methylcarbamate		
000422480	2,3-Dichloro-1,1,1,2,3-pentafluoropropane		
000078886	2,3-Dichloropropene		
000095954	2,4,5-Trichlorophenol	CAAC	
000088062	2,4,6-Trichlorophenol	CAAC CARC	
000094757	2,4-D	CARC	
053404378	2,4-D 2-Ethyl-4-methylpentyl ester	CARC	
001928434	2,4-D 2-Ethylhexyl ester	CARC	
001929733	2,4-D Butoxyethyl ester	CARC	
000094804	2,4-D Butyl ester	CARC	
002971382	2,4-D Chlorocrotyl ester	CARC	
000094111	2,4-D Isopropyl ester	CARC	
001320189	2,4-D Propylene glycol butyl ether ester	CARC	
002702729	2,4-D Sodium salt	CARC	
000094826	2,4-Db		
000615054	2,4-Diaminoanisole	CARC	
039156417	2,4-Diaminoanisole sulfate	CARC	
000095807	2,4-Diaminotoluene	CAAC CARC	
000120832	2,4-Dichlorophenol		
000105679	2,4-Dimethylphenol		
000051285	2,4-Dinitrophenol	CAAC	
000121142	2,4-Dinitrotoluene	CAAC	
000541537	2,4-Dithiobiuret		
000120365	2,4-Dp	CARC	
000576261	2,6-Dimethylphenol		
000606202	2,6-Dinitrotoluene		
000087627	2,6-Xylidine	CARC	
000053963	2-Acetylaminofluorene	CAAC CARC	
000117793	2-Aminoanthraquinone	CARC	
000052517	2-Bromo-2-nitropropane-1,3-diol		
002837890	2-Chloro-1,1,1,2-tetrafluoroethane		
000075887	2-Chloro-1,1,1-trifluoroethane		
000532274	2-Chloroacetophenone	CARC	
000110805	2-Ethoxyethanol		
000149304	2-Mercaptobenzothiazole		
000109864	2-Methoxyethanol		
000075865	2-Methyllactonitrile		
000109068	2-Methylpyridine		
000088755	2-Nitrophenol		
000079469	2-Nitropropane	CAAC CARC	
000090437	2-Phenylphenol		

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
000422560	3,3-Dichloro-1,1,1,2,2-pentafluoropropane		
000091941	3,3'-Dichlorobenzidine	CAAC CARC	
000612839	3,3'-Dichlorobenzidine dihydrochloride	CARC	
064969342	3,3'- Dichlorobenzidine sulfate	CARC	
000119904	3,3'-Dimethyoxybenzidine	CAAC CARC	
020325400	3,3'-Dimethyoxybenzidine dihydrochloride	CARC	
111984099	3,3'-Dimethyoxybenzidine hydrochloride	CARC	
000119937	3,3'-Dimethylbenzidine	CAAC CARC	
000612828	3,3'-Dimethylbenzidine dihydrochloride	CARC	
041766750	3,3'-Dimethylbenzidine dihydrofluoride	CARC	
000460355	3-Chloro-1,1,1-trifluoropropane		
000563473	3-Chloro-2-metyl-1-propene	CARC	
000542767	3-Chloropropionitrile		
055406536	3-Iodo-2-propynyl butylcarbamate		
000101804	4,4'-Diaminodiphenyl ether	CARC	
000080057	4,4'-Isopropylidenediphenol		
000101779	4,4'-Methyenedianline	CAAC CARC	
000101144	4,4'-Methylenebis (2-chloroaniline)	CAAC CARC	
000101611	4,4'-Methylenebis (N,N-dimethyl benzenamin)	CARC	
000139651	4,4'-Thiodianiline	CARC	
000534521	4,6-Dinitro-o-cresol	CAAC	
000060093	4-Aminoazobenzene	CARC	
000092671	4-Aminobiphenyl	CAAC CARC	
000060117	4-Dimethylaminoazobenzene	CAAC CARC	
000092933	4-Nitrobiphenyl	CAAC CARC	
000100027	4-Nitrophenol	CAAC	
000099592	5-Nitro-o-anisidine		
000099558	5-Nitro-o-toluidine		
071751412	Abamectin		
030560191	Acephate		
000075070	Acetaldehyde	CAAC CARC	
000060355	Acetamide	CAAC CARC	
000067641	Acetone		01/01/94
000075058	Acetonitrile	CAAC	
000098862	Acetophenone		
062476599	Acifluorfen, sodium salt		
000107028	Acrolein	CAAC	
000079061	Acrylamide	CAAC CARC	
000079107	Acrylic acid	CAAC	
000107131	Acrylonitrile	CAAC CARC	
015972608	Alachlor		
000116063	Aldicarb		
000309002	Aldrin		
000107186	Allyl alcohol		
000107051	Allyl chloride	CAAC	
000107119	Allylamine		
000319846	Alpha-hexachlorocyclohecane		
000319846	Alpha-hexachlorocyclohexane		
000134327	Alpha-naphthylamine	CARC	
007429905	Aluminum (fume or dust)		

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
001344281	Aluminum oxide (fibrous forms)		
020859738	Aluminum phosphide		
000834128	Ametryn		
033089611	Amitraz		
000061825	Amitrole	CARC	
007664417	Ammonia		
006484522	Ammonium nitrate (solution)		01/01/95
007783202	Ammonium sulfate (solution)		01/01/95
000101053	Anilazine		
000062533	Aniline	CAAC	
000120127	Anthracene		
007440360	Antimony		
N010	Antimony compounds	CAAC	
007440382	Arsenic	CARC	
N020	Arsenic compounds	CAAC	
001332214	Asbestos (friable)	CAAC CARC	
001912249	Atrazine	CARC	
007440393	Barium		
N040	Barium compounds		
022781233	Bendiocarb		
001861401	Benfluralin		
017804352	Benomyl		
000098873	Benzal chloride		
000055210	Benzamide		
000071432	Benzene	CAAC 33/50 CARC	
000092875	Benzidine	CAAC CARC	
000098077	Benzoic trichloride	CAAC CARC	
000098884	Benzoyl chloride		
000094360	Benzoyl peroxide		
000100447	Benzyl chloride	CAAC	
007440417	Beryllium	CARC	
N050	Beryllium compounds	CAAC	
000091598	beta-Naphthylamine	CAAC CARC	
000057578	beta-Propiolactone	CAAC CARC	
000057578	Beta-propiolactone	CAAC CARC	
082657043	Befenthrin		
000092524	biphenyl		
000111911	Bis (2-chloroethoxy) methane		
000108601	Bis (2-chloro-1-methylethyl) ether		
000111444	Bis (2-chloroethyl) ether	CAAC	
000103231	Bis (2-ethylhexyl) adipate		01/01/95
000542881	Bis (chloromethyl) ether	CAAC CARC	
000056359	Bis (tributyltin) oxide		
010294345	Boron trichloride		
007637072	Boron trifluoride		
000314409	Bromacil		
053404196	Bromacil, lithium salt		
007726956	Bromine		
000353593	Bromochlorodifluoromethane		
000075252	Bromoform	CAAC	

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
000074839	Bromomethane	CAAC	
000075638	Bromotrifluoromethane		
001689845	Bromoxynil		
001689992	Bromoxynil octanoate		
000357573	Brucine		
000141322	Butyl acrylate		
000085687	Butyl benzyl phthalate		01/01/94
000123728	Butyraldehyde		
002650182	C.I. Acid Blue 9, diammonium salt		01/01/88
003844459	C.I. Acid Blue 9, disodium salt		01/01/88
004680788	C.I. Acid Green 3		
006459945	C.I. Acid Red 114	CARC	
000569642	C.I. Basic Green 4		
000989388	C.I. Basic Red 1		
001937377	C.I. Direct Black 38	CARC	
028407376	C.I. Direct Blue 218	CARC	
002602462	C.I. Direct Blue 6	CARC	
016071866	C.I. Direct Brown 95	CARC	
002832408	C.I. Disperse Yellow 3		
000081889	C.I. Food Red 15		
003761533	C.I. Food Red 5	CARC	
014302137	C.I. pigment green 36		01/01/87
001328536	C.I. pigment green 7		01/01/90
003118976	C.I. Solvent Orange 7		
000842079	C.I. Solvent Yellow 14		
000097563	C.I. Solvent Yellow 3		
000492808	C.I. Solvent Yellow 34	CARC	
000128665	C.I. Vat Yellow 4		
007440439	Cadmium	33/50 CARC	
N078	Cadmium compounds	CAAC 33/50	
000156627	Calcium cyanamide	CAAC	
000133062	Captan	CAAC	
000063252	Carbaryl	CAAC	
001563662	Carbofuran		
000075150	Carbon disulfide	CAAC	
000056235	Carbon tetrachloride	CAAC 33/50 CARC	
000463581	Carbonyl sulfide	CAAC	
005234684	Carboxin		
000120809	Catechol	CAAC	
N230	Certain glycol ethers	CAAC	
002439012	Chinomethionat		
000133904	Chloramben	CAAC	
000057749	Chlordane	CAAC CARC	
000115286	Chlorendic acid	CARC	
090982324	Chlorimuron ethyl		
007782505	Chlorine		
010049044	Chlorine dioxide		
000079118	Chloroacetic acid	CAAC	
000108907	Chlorobenzene	CAAC	
000510156	Chlorobenzilate	CAAC	

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
000075456	Chlorodifluoromethane		
000075003	Chloroethane	CAAC	
000067663	Chloroform	CAAC 33/50 CARC	
000067663	Chloroform (trichloromethane)	CAAC 33/50 CARC	
000074873	Chloromethane	CAAC	
000107302	Chloromethyl methyl ether	CAAC CARC	
N084	Chlorophenols	CARC	
000076062	Chloropicrin		
000126998	Chloroprene	CAAC	
063938103	Chlorotetrafluoroethane		
001897456	Chlorothalonil		
000075729	Chlorotrifluoromethane		
005598130	Chlorpyrifos methyl		
064902723	Chlorsulfuron		
007440473	Chromium	33/50 CARC	
N090	Chromium compounds	CAAC 33/50	
007440484	Cobalt	CARC	
N096	Cobalt compounds	CAAC CARC	
007440508	Copper		
N100	Copper compounds		
008001589	Creosote	CARC	
001319773	Cresol (mixed isomers)	CAAC	
004170303	Crotonaldehyde		
000098828	Cumene	CAAC	
000080159	Cumene hydroperoxide		
000135206	Cupferron	CARC	
021725462	Cyanazine		
N106	Cyanide compounds	CAAC 33/50	
001134232	Cycloate		
000110827	Cyclohexane		
000108930	Cyclohexanol		
068359375	Cyfluthrin		
068085858	Cyhalothrin		
000533744	Dazomet		
053404607	Dazomet, sodium salt		
001163195	Decabromodiphenyl oxide		
013684565	Desmedipham		
000117817	Di-(2-ethlyhexyl) phthalate	CAAC CARC	
002303164	Diallate		
025376458	Diaminotoluene (mixed isomers)	CARC	
000333415	Diazinon		
000334883	Diazomethane	CAAC	
000132649	Dibenzofuran	CAAC	
000124732	Dibromotetrafluoroethane		
000084742	Dibutyl phthalate	CAAC	
001918009	Dicamba		
000099309	Dichloran		
090454185	Dichloro-1,1,2-trifluoroethane		
025321226	Dichlorobenzene (mixed isomers)	CARC	

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
000075274	Dichlorobromomethane		
000075434	Dichlorofluoromethane		
000075092	Dichloromethane	CAAC 33/50 CARC	
127564925	Dichloropentafluoropropane		
000097234	Dichlorophene		
000076142	Dichorotetrafluoroethane (CFC-114)		
034077877	Dichlorotrifluoroethane		
000062737	Dichlorvos	CAAC CARC	
000075718	Dichlorodifluoromethane		
051338273	Diclofop methyl		
000115322	Dicofol		
000077736	Dicyclopentadiene		
001464535	Diepoxybutane	CARC	
000111422	Diethanolamine	CAAC	
038727558	Diethatyl ethyl		
000084662	Diethyl phthalate		01/01/95
000064675	Diethyl sulfate	CARC	
035367385	Diflubenzuron		
000101906	Diglycidyl resorcinol ether	CARC	
000094586	Dihrdrosafrole	CARC	
N120	Diisocyanates		
055290647	Dimethipin		
000060515	Dimethoate		
002524030	Dimethyl chlorothiophosphate		
000131113	Dimethyl phthalate	CAAC	
000077781	Dimethyl sulfate	CAAC CARC	
000124403	Dimethylamine		
002300665	Dimethylamine dicamba		
000079447	Dimethylcarbamyl chloride	CAAC CARC	
000088857	Dinitrobutyl phenol		
025321146	Dinitrotoluene (mixed isomers)		
039300453	Dinocap		
000957517	Diphenamid		
000122394	Diphenylamine		
002164070	Dipotassium endothall		
000136458	Dipropyl isoinchomeronate		
000138932	Disodium cyanodithioimidocarbonate		
000330541	Diuron		
002439103	Diodine		
028057489	D-trans-allethrin		
000106898	Epichlorohydrin	CAAC CARC	
013194484	Ethoprop		
000140885	Ethyl acrylate	CAAC CARC	
000541413	Ethyl chloroformate		
000759944	Ethyl dipropylthiocarbamate		
000100414	Ethylbenzene	CAAC	
000074851	Ethylene		
000107211	Ethylene glycol	CAAC	
000075218	Ethylene oxide	CAAC CARC	
000096457	Ethylene thiourea	CAAC CARC	

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
N171	Ethylenebisdithiocarbamic acid, salts and esters		
000151564	Ethyleneimine	CAAC CARC	
000075343	Ethylidene dichloride		
000052857	Famphur		
060168889	Fenarimol		
013356086	Fenbutatin oxide		
066441234	Fenoxaprop ethyl		
072490018	Fenoxycarb		
039515418	Fenpropathrin		
000055389	Fenthion		
051630581	Fenvalerate		
014484641	Ferbam		
069806504	Fluazifop butyl		
002164172	Fluometuron		
007782414	Fluorine		
000051218	Fluorouracil		
069409945	Fluvalinate		
000133073	Folpet		
072178020	Fomesafen		
000050000	Formaldehyde	CAAC CARC	
000064186	Formic acid		
000076131	Freon 113		
000076448	Heptachlor	CAAC CARC	
000087683	Hexachloro-1,3-butadiene	CAAC	
000118741	Hexachlorobenzene	CAAC CARC	
000077474	Hexachlorocyclopentadiene	CAAC CAAC	
000067721	Hexachloroethane		
001335871	Hexachloronaphthalene		
000070304	Hexachlorophene		
000680319	Hexamethylphosphoramide	CAAC CARC	
051235042	Hexazinone		
067485294	Hydramethylon		
000302012	Hydrazine	CAAC CARC	
010034932	Hydrazine sulfate	CARC	
007647010	Hydrochloric acid (acid areosols only)	CAAC	
000074908	Hydrogen cyanide	33/50	
000074908	Hydrogen cyanide	33/50	
007664393	Hydrogen fluoride	CAAC	
000123319	Hydroquinone	CAAC	
035554440	Imazalil		
013463406	Iron pentacarbonyl		
000078842	Isobutyraldehyde		
000465736	Isodrin		
025311711	Isofenphos		
000067630	Isopropyl alcohol (manufacturing, strong acid process only)		
000120581	Isosafrole		
077501634	Lactofen		
007439921	Lead	33/50 CARC	
N420	Lead compounds	33/50 CARC	

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
000058899	Lindane	CAAC CARC	
000330552	Linuron		
000554132	Lithium carbonate		
000121755	Malathion		
000108316	Maleic anhydride	CAAC	
000109773	Malononitrile		
012427382	Maneb		
007439965	Manganese		
N450	Manganese compounds	CAAC	
000108394	m-Cresol	CAAC	
000093652	Mecoprop	CARC	
000108781	Melamine		01/01/88
007439976	Mercury	33/50	
N458	Mercury compounds	CAAC 33/50	
000150505	Merphos		
0000126987	Methacrylonitrile		
000137428	Metham sodium		
000067561	Methanol	CAAC	
020354261	Methazole		
002032657	Methiocarb		
000094746	Methoxone	CARC	
003653483	Methoone, sodium salt	CARC	
000072435	Methoxychlor		
000096333	Methyl acrylate		
000079221	Methyl chlorocarbonate		
000078933	Methyl ethyl ketone	CAAC 33/50	
000060344	Methyl hydrazine	CAAC	
000074884	Methyl iodide	CAAC	
000108101	Methyl isobutyl ketone	CAAC 33/50	
000624839	Methyl isocyanate	CAAC	
000556616	Methyl isothiocyanate		
000080626	Methyl methacrylate	CAAC	
000298000	Methyl parathion		
001634044	Methyl tert-butyl ether	CAAC	
000074953	Methylene bromide		
000101688	Methylenebis (phenylisocyanate)	CAAC	01/01/95
009006422	Metiram		
021087649	Metribuzin		
007786347	Mevinphos		
000090948	Michler's ketone	CARC	
002212671	Molinate		
001313275	Molybdenum trioxide		
000076153	Monochoropentafluoroethane		
000150685	Monuron		
000505602	Mustard gas	CARC	
000108383	m-Xylene	CAAC 33/50	
088671890	Myclobutanil		
000121697	N,n-dimethylaniline	CAAC	
000068122	N,n-dimethylformamide	CAAC CARC	
000142596	Nabam		
000300765	Naled		

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
000091203	Naphthalene	CAAC	
000071363	N-butyl alcohol		
00117840	N-dioctyl phthalate		01/01/93
000110543	N-hexane	CAAC	
007440020	Nickel	33/50 CARC	
N495	Nickel compounds	CAAC 33/50	
N503	Nicotine and Salts		
001929824	Nitrapyrin		
N511	Nitrate compounds		
007697372	Nitric acid		
000139139	Nitrilotriacetic acid	CARC	
000098953	Nitrobenzene	CAAC	
001836755	Nitrofen	CARC	
000051752	Nitrogen mustard	CARC	
000055630	Nitroglycerin		
000872504	N-methyl-2-pyrrolidone		
000924425	N-methylolacrylamide		
000055185	N-nitrosodiethylamine	CARC	
000062759	N-nitrosodimethylamine	CAAC CARC	
000924163	N-nitrosodi-n-butylamine	CARC	
000621647	N-nitrosodi-n-propylamine	CARC	
000086306	N-nitrosodiphenylamine		
004549400	N-nitrosomethylvinylamine	CARC	
000059892	N-nitrosomorpholine	CAAC CARC	
000759739	N-nitroso-N-ethylurea	CARC	
000684935	N-nitroso-N-methylurea	CAAC CARC	
016543558	N-nitrosonornicotine	CARC	
000100754	N-nitrosopiperidine	CARC	
027314132	Norflurazon		
000090040	o-Anisidine	CAAC CARC	
000134292	o-Anisidine hydrochloride	CARC	
000095487	o-Cresol	CAAC	
002234131	Octochloronaphthalene		
000528290	O-dinitrobenzene		
019044883	Oryzalin		
020816120	Osmium tetroxide		
000095534	o-Toluidine	CAAC CARC	
000636215	o-Toluidine hydrochloride	CARC	
000301122	Oxydemeton methyl		
019666309	Oxydiazon		
042874033	Oxyfluorfen		
000095476	o-Xylene	CAAC 33/50	
010028156	Ozone		
000104949	p-Anisidine		
000123637	Paraldehyde		
001910425	Paraquat dichloride		
000056382	Parathion	CAAC	
000106478	p-chloroaniline	CARC	
000095692	p-chloro-o-toluidine	CARC	
000104121	p-chlorophenyl isocyanate		
000120718	p-Cresidine	CARC	

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
000106445	p-Cresol	CAAC	
001114712	Pebulate		
040487421	Pendimethalin		
000076017	Pentachloroethane		
000087865	Pentachlorophenol	CAAC CARC	
000057330	Pentobarbital sodium		
000079210	Peracetic acid		
000594423	Perchloromethyl mercaptan		
052645531	Permiethrin		
000085018	Phenanthrene		
000108952	Phenol	CAAC	
026002802	Phenothrin		
000057410	Phenytoin	CARC	
000075445	Phosgene	CAAC	
007803512	Phosphine	CAAC	
007664382	Phosphoric acid		
007723140	Phosphorus (yellow or white)	CAAC	
000085449	Phthalic anhydride	CAAC	
001918021	Picloram		
000088891	Picric acid		
000051036	Piperonyl butoxide		
029232937	Pirimiphos methyl		
000100016	p-nitroaniline		
000156105	p-Nitrosodiphenylamine	CAAC	
N575	Polybrominated biphenyls	CARC	
N583	Polychlorinated alkanes		
001336363	Polychlorinated biphenyls (PCBs)	CAAC CARC	
N590	Polycyclic aromatic compounds	CAAC CARC	
007758012	Potassium bromate	CARC	
000128030	Potassium dimethyldithiocarbamate		
000137417	Potassium n-methyldithiocarbamate		
000106503	p-phenylenediamine	CAAC	
041198087	Profenofos		
007287196	Prometryn		
023950585	Pronamide		
001918167	Propachlor		
001120714	Propane sultone	CAAC CARC	
000709988	Propanil		
00231358	Progragite		
000107197	Propargyl alchol		
031218834	Propetamphos		
060207901	Propiconazole		
000123386	Propionaldehyde	CAAC	
000114261	Propoxur	CAAC	
000115071	Propylene		
000075569	Propylene oxide	CAAC CARC	
000075558	Propyleneimine	CAAC CARC	
000106423	p-Xylene	CAAC 33/50	
000110861	Pyridine		
000091225	Quinoline	CAAC	
000106514	Quinone	CAAC	

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
000082688	Quintozene	CAAC	
076578148	Quizalofop-ethyl		
010453868	Resmethrin		
000078488	s,s,s-Tributyltrithiophosphate		
000081072	Saccharin (manufacturing, no supplier notific.)	CARC	
000094597	Safrole	CARC	
000078922	sec-Butyl alcohol		
007782492	Selenium		
N725	Selenium compounds	CAAC	
074051802	Sethoxydim		
007440224	Silver		
N740	Silver compounds		
000122349	Simazine		
026628228	Sodium azide		
001982690	Sodium dicamba		
000128041	Sodium dimethyldithiocarbamate		
000062748	Sodium fluoroacetate		
001310732	Sodium hydroxide (solution)		01/01/89
007632000	Sodium nitrite		
000132274	Sodium o-phenylphenoxide	CARC	
000131522	Sodium pentachlorophenate		
007757826	Sodium sulfate (solution)		01/01/88
N746	Strychnine and salts		
000100425	Styrene	CAAC CARC	
000096093	Styrene oxide	CAAC CARC	
007664939	Sulfuric acid		
002699798	Sulfuryl fluoride		
035400432	Sulprofos		
034014181	Tebuthiuron		
003383968	Temephos		
005902512	Terbacil		
000100210	Terephthalic acid		01/01/90
000075650	tert-Butyl alcohol		
000127184	Tetrachloroethylene	CAAC 33/50 CARC	
000961115	Tetrachlorvinphos		
000064755	Tetracycline hydrochloride		
007696120	Tetramethrin		
007440280	Thallium		
N760	Thallium compounds		
00014879	Thiabendazole		
000062555	Thioacetamide	CARC	
028249776	Thiobencarb		
059669260	Thiodicarb		
023564069	Thiophanate ethyl		
023564058	Thiophanate-methyl		
000079196	Thiosemicarbazide		
000062566	Thiourea	CARC	
000137268	Thiram		
001314201	Thorium dioxide		

CAS Numbers for TRI Codes			
CAS Number	**Chemical Name**	**Concern List**	**Deactivation Date**
013463677	Titanium dioxide		01/01/87
007550450	Titanium tetrachloride	CAAC	
000108883	Toluene	CAAC 33/50	
026471625	Toluene diisocyanate (mixed isomers)	CARC	
000584849	Toluene-2,4-diisocyanate	CAAC CARC	
000091087	Toluene-2,6-diisocyanate	CARC	
008001352	Toxaphene	CAAC CARC	
999999999	Trade secret chemical		
010061026	Trans-1,3-dichloropropene	CARC	
000110576	Trans-1,4-dichloro-2-butene		
043121433	Triadimefon		
002303175	Triallate		
000068768	Triaziquone		
101200480	Tribenuron methyl		
001983104	Tributyltin fluoride		
002155706	Tributyltin methacrylate		
000052686	Trichlorfon		
000076028	Trichloroacetyl chloride		
000079016	Trichloroethylene	CAAC 33/50 CARC	
000075694	Trichlorofluoromethane		
057213691	Triclopyr triethylammonium salt		
000121448	Triethylamine	CAAC	
001582098	Trifluralin	CAAC	
026644462	Triforine		
000639587	Triphenyltin chloride		
000076879	Triphenyltin hydroxide		
000126727	Tris(2,3-dibromopropyl) phosphate	CARC	
000072571	Trypan blue	CARC	
000051796	Urethane	CAAC CARC	
007440622	Vanadium (fume or dust)		
050471448	Vinclozolin		
000108054	Vinyl acetate	CAAC CARC	
000593602	Vinyl bromide	CAAC CARC	
000075014	Vinyl chloride	CAAC CARC	
000075354	Vinylidene chloride	CAAC	
N874	Warfarin and salts		
001330207	Xylene (mixed isomers)	CAAC 33/50	
007440666	Zinc (fume or dust)		
N982	Zinc compounds		
012122677	Zineb		

Appendix B

SIC Codes

APPENDIX B: SIC Codes

The following list contains all of the Standard Industrial Classification (SIC) Codes within the TRI System OTSS Tables and their translations. Federal SIC Codes are listed beginning on Page 19, under the tile Division J – Public Administration.

SIC Codes	
SIC Code	**Translation**
2000	Food and kindred products
2010	Meat products
2011	Meat packing plants
2013	Sausages and other prepared meat products
2015	Poultry slaughtering and processing (1987)
2016	Poultry dressing plants (DISC. 1987, 2015)
2017	Poultry and egg processing (DISC. 1987, 2015)
2020	Dairy products
2021	Creamery butter
2022	Cheese, natural and processed
2023	Condensed and evaporated milk
2024	Ice cream and frozen desserts
2026	Fluid milk
2030	Preserved fruits and vegetables
2032	Canned specialties
2033	Canned fruits and vegetables
2034	Dehydrated fruits, vegetables, and soups
2035	Pickles, sauces, and salad dressings
2037	Frozen fruits, fruit juices and vegetables
2038	Frozen specialties, NEC
2040	Grain mill products
2041	Flour and other grain mill products
2043	Cereal breakfast foods
2044	Rice milling
2045	Prepared flour, mixes, and doughs
2046	Wet corn milling
2047	Dog and cat food
2048	Prepared feeds
2050	Bakery products NEC
2051	Bread cake and related products
2052	Cookies and crackers
2053	Frozen bakery products, except bread (1987)
2060	Sugar and confectionery products
2061	Raw cane sugar
2062	Cane sugar refining
2063	Beet sugar
2064	Candy and other confectionery products
2065	Confectionery products (DISC. 1987, 2064 or 2068)
2066	Chocolate and cocoa products
2067	Chewing gum
2068	Salted and roasted nuts and seeds (1987)
2070	Fats and oils
2074	Cottonseed oil mills
2075	Soybean oil mills

SIC Codes	
SIC Code	**Translation**
2076	Vegetable oil mills, NEC
2077	Animal and marine fats and oils
2079	Edible fats and oils, NEC
2080	Beverages
2082	Malt beverages
2083	Malt
2084	Wines, brandy, and brandy spirits
2085	Distilled and blended liquors
2086	Bottled and canned soft drinks
2087	Flavoring extracts and syrups, NEC
2090	Miscellaneous food and kindred products
2091	Canned and cured fish and seafoods
2092	Fresh or frozen prepared fish
2095	Roasted coffee
2096	Potato chips and similar snacks (1987)
2097	Manufactured ice
2098	Macaroni and spaghetti
2099	Food preparations, NEC
2100	Tobacco manufacturers
2110	Cigarettes
2111	Cigarettes
2120	Cigars
2121	Cigars
2130	Chewing and smoking tobacco
2131	Chewing and smoking tobacco
2140	Tobacco stemming and redrying
2141	Tobacco stemming and redrying
2200	Textile mill products
2210	Broadwoven fabric mills, cotton
2211	Broadwoven fabric mills, cotton
2220	Broadwoven fabric mills, man-made
2221	Broadwoven fabric mills, man-made
2230	Broadwoven fabric mills, wool
2231	Broadwoven fabric mills, wool
2240	Narrow fabric mills
2241	Narrow fabric mills
2250	Knitting mills
2251	Women’s hosiery, except socks
2252	Hosiery, NEC
2253	Knit outerwear mills
2254	Knit underwear mills
2257	Weft knit fabric mills
2258	Lace and warp knit fabric mills
2259	Knitting mills, NEC
2260	Textile finishing, except wool
2261	Finishing plants, cotton
2262	Finishing plants, man-made
2269	Finishing plants, NEC
2270	Carpets and rugs
2271	Woven carpets and rugs (DISC. 1987, 2273)
2272	Tufted carpets and rugs (DISC. 1987, 2273)
2273	Carpets and rugs (1987)

SIC Codes	
SIC Code	**Translation**
2279	Carpets and rugs, NEC (DISC. 1987, 2273)
2280	Yarn and thread mills
2281	Yarn spinning mills
2282	Throwing and winding mills
2283	Yarn mills, wool, including carpet and rug yarn (DISC. 1987, 2281 or 2282)
2284	Thread mills
2290	Miscellaneous textile goods
2291	Felt goods, except woven felts and hats (DISC. 1987, 2299)
2292	Lace goods (DIS. 1987, 2258)
2293	Paddings and upholstery filling (DISC. 1987, 2299)
2294	Processed waste and recovered fibers and flock (DISC. 1987, 2299)
2295	Coated fabrics, not rubberized
2296	Tire cord and fabric
2297	Nonwoven fabrics
2298	Cordage and twine
2299	Textile goods, NEC
2300	Apparel and other finished products made from fabrics and other similar materials
2310	Men's and boys' suits and coats
2311	Men's and boys' suits and coats
2320	Men's and boys' furnishings
2321	Men's and boys' shirts
2322	Men's and boys' underwear and nightwear
2323	Men's and boys' neckware
2325	Men's and boys' trousers and slacks
2326	Men's and boys' clothing, NEC
2329	Men's and boys' clothing, NEC
2330	Women's and misses' outerwear
2331	Women's and misses' blouses and shirts
2335	Women's, juniors' and misses' dresses
2337	Women's and misses' suits and coats
2339	Women's and misses' outerwear, NEC
2340	Women's and children's undergarments
2341	Women's and children's underwear
2342	Bras, girdles, and allied garments
2350	Hats, caps and millinery
2351	Millinery (DISC. 1987, 2353)
2352	Hats and caps, except millinery (DISC. 1987, 2353)
2353	Hats, caps and millinery (1987)
2360	Girls' and children's outerwear
2361	Girl's and children's dresses and blouses
2363	Girl's, children's and infants' coats and suits (DISC. 1987, 2369)
2369	Girl's and children's outerwear, NEC
2370	Fur goods
2371	Fur goods
2380	Miscellaneous apparel and accessories
2381	Fabric dress and work gloves
2384	Robes and dressing gowns
2385	Waterproof outerwear
2386	Leather and sheep lined clothing
2387	Apparel belts
2389	Apparel and accessories, NEC
2390	Miscellaneous fabricated textile products

SIC Codes	
SIC Code	**Translation**
2391	Curtains and draperies
2392	House furnishings, NEC
2393	Textile bags
2394	Canvas and related products
2395	Pleating and stitching
2396	Automotive and apparel trimmings
2397	Schiffli machine embroideries
2399	Fabricated and textile products, NEC
2400	Lumber and wood products, except furniture
2410	Logging
2411	Logging
2420	Sawmills and planing mills
2421	Sawmills and planing mills, general
2426	Hardwood dimension and flooring mills
2429	Special products sawmills, NEC
2430	Millwork, plywood and structural members
2431	Millwork
2434	Wood kitchen cabinets
2435	Hardwood veneer and plywood
2436	Softwood veneer and plywood
2439	Structural wood members, NEC
2440	Wood containers
2441	Nailed wood boxes and shook
2448	Wood pallets and skids
2449	Wood containers, NEC
2450	Wood buildings and mobile homes
2451	Mobil homes
2452	Prefabricated wood buildings and components
2490	Miscellaneous wood products
2491	Wood preserving
2492	Particleboard (DISC. 1987, 2493)
2493	Reconstituted wood products
2499	Wood products, NEC
2500	Furniture and fixtures
2510	Household furniture
2511	Wood household furniture
2512	Upholstered household furniture
2514	Metal household furniture
2515	Mattresses and bedsprings
2517	Wood television and radio cabinets
2519	Household furniture, NEC
2520	Office furniture
2521	Wood office furniture
2522	Office furniture, except wood
2530	Public building and related furniture
2531	Public building and related furniture
2540	Partitions and fixtures
2541	Wood partitions and fixtures
2542	Partitions and fixtures, except wood
2590	Miscellaneous furniture and fixtures
2591	Drapery hardware and blinds and shades
2599	Furniture and fixtures, NEC

SIC Codes	
SIC Code	**Translation**
2600	Paper and allied products
2610	Pulp mills
2611	Pulp mills
2620	Paper mills
2621	Paper mills
2630	Paperboard mills
2631	Paperboard mills
2640	Miscellaneous paper goods (DISC. 1987, 2650, 2669, or 2670)
2641	Paper coating and glazing (DISC. 1987, 2671 or 2672)
2642	Envelopes (DISC 1987, 2677)
2643	Bags, except textile bags (DISC 1987, 2673 or 2674)
2645	Die cut paper and paperboard and cardboard (DISC 1987, 2675)
2646	Pressed and molded pulp goods (DISC. 1987, 2679)
2647	Sanitary paper products (DISC. 1987, 2676)
2648	Stationary, tablets and related products (DISC. 1987, 2678)
2649	Converted paper and paperboard products, NEC (DISC. 1987, 2679)
2650	Paperboard containers and boxes
2651	Folding paperboard boxes (DISC. 1987, 2657)
2652	Set-up paperboard boxes
2653	Corrugated and solid fiber boxes
2654	Sanitary food containers (DISC. 1987, 2656 or 2657)
2655	Fiber cans, drums and similar products
2656	Sanitary food containers (1987)
2657	Folding paperboard boxes (1987)
2660	Building paper and building board mills (DISC. 1987, 2493 or 2620)
2661	Building paper and building board mills (DISC. 1987, 2493 or 2621)
2671	Paper: coated and laminated, packaging (1987)
2672	Paper: coated and laminated, NEC (1987)
2673	Bags: plastic and coated (1987)
2674	Bags: uncoated paper and multiwall (1987)
2675	Die-cut paper and board (1987)
2676	Sanitary paper products (1987)
2677	Envelopes (1987)
2678	Stationary products (1987)
2679	Converted paper products, NEC (1987)
2700	Printing, publishing, and allied industries
2710	Newspapers
2711	Newspapers
2720	Periodicals
2721	Periodicals
2730	Books
2731	Book publishing
2732	Book printing
2740	Miscellaneous publishing
2741	Miscellaneous publishing
2750	Commercial printing
2751	Commercial printing, letterpress and screen (DISC 1987, 2759)
2752	Commercial printing, lithographic
2753	Engraving and plate printing (DISC. 1987, 2759 or 2796)
2754	Commercial printing, gravure
2759	Commercial printing, NEC (1987)
2760	Manifold business forms

SIC Codes	
SIC Code	**Translation**
2761	Manifold business forms
2770	Greeting cards
2771	Greeting cards
2780	Blankbooks and bookbinding
2782	Blankbooks and looseleaf binders
2789	Bookbinding and related work
2790	Printing trade services
2791	Typesetting
2793	Photoengraving (DISC. 1987, 2796)
2794	Electrotyping and stereotyping (DISC. 1987, 2796)
2795	Lithographic plate-making and related services (DISC. 1987, 2796)
2796	Platemaking services (1987)
2800	Chemical and allied products
2810	Industrial inorganic chemicals
2812	Alkalies and chlorine
2813	Industrial gases
2816	Inorganic pigments
2819	Industrial inorganic chemicals, NEC
2820	Plastics materials and synthetics
2821	Plastics materials and resins
2822	Synthetic rubber
2823	Cellulosic man-made fibers
2824	Organic fibers, noncellulosic
2830	Drugs
2831	Biological products (DISC. 1987, 2835 or 2836)
2833	Medicinals and botanicals
2834	Pharmaceutical preparations
2835	Diagnostic substances (1987)
2836	Biological products, except diagnostic (1987)
2840	Soaps, cleaners and toilet goods
2841	Soap and other detergents
2842	Polishes and sanitation goods
2843	Surface active agents
2844	Toilet preparations
2850	Paints and allied products
2851	Paints and allied products
2860	Industrial organic chemicals
2861	Gum and wood chemicals
2865	Cyclic crudes and intermediates
2869	Industrial organic chemicals, NEC
2870	Agricultural chemicals
2873	Nitrogenous fertilizers
2874	Phosphatic fertilizers
2875	Fertilizers, mixing only
2879	Agricultural chemicals, NEC
2890	Miscellaneous chemical products
2891	Adhesive and sealants
2892	Explosives
2893	Printing ink
2895	Carbon black
2899	Chemical preparations, NEC
2900	Petroleum refining and related industries

SIC Codes	
SIC Code	**Translation**
2910	Petroleum refining
2911	Petroleum refining
2950	Asphalt paving and roofing materials
2951	Asphalt paving mixtures and blocks
2952	Asphalt felts and coatings
2990	Miscellaneous petroleum and coal products
2992	Lubricating oils and greases
2999	Petroleum and coal products, NEC
3000	Rubber and miscellaneous plastics products
3010	Tires and inner tubes
3011	Tires and inner tubes
3020	Rubber and plastic footwear
3021	Rubber and plastic footwear
3030	Reclaimed rubber (DISC. 1987, 3069)
3031	Reclaimed rubber (DISC. 1987, 3069)
3040	Rubber and plastic hose and belting (DISC. 1987, 3052)
3041	Rubber and plastic hose and belting (DISC. 1987, 3052)
3050	Hose and belting and gaskets and packing (1987)
3052	Rubber and plastic hose and belting (1987)
3053	Gaskets, packing and sealing devices (1987)
3060	Fabricated rubber products, NEC
3061	Mechanical rubber goods (1987)
3069	Fabricated rubber products, NEC
3070	Miscellaneous plastics products (DISC. 1987, 3080)
3079	Miscellaneous rubber products (DISC. 1987, 3081, 3082)
3080	Miscellaneous plastics products, NEC (1987)
3081	Unsupported plastics film and sheet (1987)
3082	Unsupported plastics profile shapes (1987)
3083	Laminated plastics plate and sheet (1987)
3084	Plastics pipe (1987)
3085	Plastics bottles (1987)
3086	Plastics foam bottles (1987)
3087	Custom compound purchased resins (1987)
3088	Plastics plumbing fixtures (1987)
3089	Plastics products, NEC (1987)
3100	Leather and leather products
3110	Leather tanning and finishing
3111	Leather tanning and finishing
3130	Footwear cut stock
3131	Footwear cut stock
3140	Footwear, except rubber
3142	House slippers
3143	Men’s footwear, except athletic
3144	Women’s footwear, except athletic
3149	Footwear, except rubber, NEC
3150	Leather gloves and mittens
3151	Leather gloves and mittens
3160	Luggage
3161	Luggage
3170	Handbags and personal leather goods
3171	Women’s handbags and purses
3172	Personal leather goods, NEC

SIC Codes	
SIC Code	**Translation**
3190	Leather goods, NEC
3199	Leather goods, NEC
3200	Stone, clay, glass and concrete products
3210	Flat glass
3211	Flat glass
3220	Glass and glasswear pressed or blown
3221	Glass containers
3229	Pressed and blown glass and glasswear, NEC
3230	Products of purchased glass
3231	Products of purchased glass
3240	Cement, hydraulic
3241	Cement, hydraulic
3250	Structural clay products
3251	Brick and structural clay tile
3253	Ceramic wall and floor tile
3255	Clay refractories
3259	Structural clay products, NEC
3260	Pottery and related products
3261	Vitreous plumbing fixtures
3262	Vitreous china table and kitchenware
3263	Semivitreous table and kitchenware
3264	Porcelain electrical supplies
3269	Pottery products, NEC
3270	Concrete, gypsum and plaster products
3271	Concrete block and brick
3272	Concrete products, NEC
3273	Ready mixed concrete
3274	Lime
3275	Gypsum products
3280	Cut stone and stone products
3281	Cut stone and stone products
3290	Miscellaneous nonmetallic mineral products
3291	Abrasive products
3292	Asbestos products
3293	Gaskets, packing and sealing devices (DISC. 1987, 3299)
3295	Minerals, ground or treated
3296	Mineral wool
3297	Nonclay refractories
3299	Nonmetallic mineral products, NEC
3300	Primary mineral products
3310	Blast furnaces and basic steel products
3312	Blast furnaces and steel mills
3313	Electrometallurgical products
3315	Steel wire and related products
3316	Cold finishing of steel shapes
3317	Steel pipe and tubes
3320	Iron and steel foundries
3321	Gray and ductile iron foundries
3322	Malleable iron foundries
3324	Steel investment foundries
3325	Steel foundries, NEC
3330	Primary nonferrous metals

SIC Codes	
SIC Code	**Translation**
3331	Primary copper
3332	Primary smelting and refining of lead (Disc. 1987, 3339)
3333	Primary smelting and refining of zinc (Disc. 1987, 3339)
3334	Primary aluminum
3339	Primary nonferrous metals, NEC
3340	Secondary nonferrous metals
3341	Secondary nonferrous metals
3350	Nonferrous rolling and drawing
3351	Copper rolling and drawing
3353	Aluminum sheet, plate and foil
3354	Aluminum extruded products
3355	Aluminum rolling and drawing, NEC
3356	Nonferrous rolling and drawing, NEC
3357	Nonferrous wire drawing and insulating
3360	Nonferrous foundries (CASTINGS)
3361	Aluminum foundries (CASTINGS) (DISC 1987, 3363 or 3365)
3362	Brass, bronze, copper, copper base alloy foundries (CASTINGS)
3363	Aluminum die-castings (1987)
3364	Nonferrous die-castings, except aluminum (1987)
3365	Aluminum foundries (1987)
3366	Copper foundries (1987)
3369	Nonferrous foundries, NEC
3390	Miscellaneous primary metal products
3398	Metal heat treating
3399	Primary metal products, NEC
3400	Fabricated metal products
3410	Metal cans and shipping containers
3411	Metal cans
3412	Metal barrels, drums and pails
3420	Cutlery, handtools and hardware
3421	Cutlery
3423	Hand and edge tools, NEC
3425	Saw blades and handsaws
3429	Hardware, NEC
3430	Plumbing and heating, except electric
3431	Metal sanitary ware
3432	Plumbing fixture fittings and trim
3433	Heating equipment, except electric
3440	Fabricated structural metal products
3441	Fabricated structural metal
3442	Metal doors, sash and trim
3443	Fabricated plate work (boiler shops)
3444	Sheet metal work
3446	Architectural metal work
3448	Prefabricated metal buildings
3449	Miscellaneous metal work
3450	Screw machine products, bolts, etc.
3451	Screw machine products
3452	Bolts, nuts, rivets and washers
3460	Metal forgings and stampings
3462	Iron and steel forgings
3463	Nonferrous forgings

SIC Codes	
SIC Code	**Translation**
3465	Automotive stampings
3468	Crowns and closures
3469	Metal stampings, NEC
3470	Metal services, NEC
3471	Plating and polishing
3479	Metal coating and allied services
3480	Ordnance and accessories, NEC
3482	Small arms ammunition
3483	Ammunition, except for small arms, NEC
3484	Small arms
3489	Ordnance and accessories, NEC
3490	Miscellaneous fabricated metal products
3491	Metal valves (1987)
3492	Fluid power valves and hose fittings (1987)
3493	Steel springs, except wire
3494	Valves and pipe fittings, NEC
3495	Wire springs
3496	Miscellaneous fabricated wire products
3497	Metal foil and leaf
3498	Fabricated pipe and fittings
3499	Fabricated metal products, NEC
3500	Machinery, except electrical
3510	Engines and turbines
3511	Turbines and turbine generator sets
3519	Internal combustion engines, NEC
3520	Farm and garden machinery
3523	Farm machinery and equipment
3524	Lawn and garden equipment
3531	Construction machinery
3532	Mining machinery
3533	Oil and gas field machinery
3534	Elevators and moving stairways
3535	Conveyors and conveying equipment
3536	Hoists, cranes and monorails
3537	Industrial trucks and tractors
3540	Metal working machinery
3541	Machine tools, metal cutting types
3542	Machine tools, metal forming types
3543	Industrial patterns (1987)
3544	Special dies, tools, jigs and fixtures
3545	Machine tool accessories
3546	Power driven handtools
3547	Rolling mill machinery
3548	Welding apparatus (1987)
3549	Metal working machinery, NEC
3550	Special industrial machinery
3551	Food products machinery (DISC. 1987, 3556)
3552	Textile machinery
3553	Woodworking machinery
3554	Paper industries machinery
3555	Printing trades machinery
3556	Food products machinery (1987)

SIC Codes	
SIC Code	**Translation**
3559	Special industry machinery, NEC
3560	General industrial machinery
3561	Pumps and pumping equipment
3562	Ball and roller bearings
3563	Air and gas compressors
3564	Blowers and fans
3565	Industrial patterns (DISC 1987, 3543) Packaging machinery (1987, reassigned)
3566	Speed changers, drives, and gears
3567	Industrial furnaces and ovens
3568	Power transmission equipment, NEC
3569	General industrial machinery, NEC
3570	Computers and office equipment
3571	Electronic computers (1987)
3572	Typewriters (DISC. 1987, 3579) Computer storage devices (1987, reassigned)
3573	Electronic computer equipment (DISC. 1987, 3571 or 3572)
3574	Calculating and accounting machines, except electronic computing equipment
3575	Computer terminals (1987)
3576	Scales and balances, except laboratory (DISC. 1987, 3596)
3577	Computer peripheral equipment, NEC (1987)
3578	Calculating and accounting equipment (1987)
3579	Office machines, NEC
3580	Refrigeration and service machinery
3581	Automatic vending machines
3582	Commercial laundry equipment
3585	Refrigeration and heating equipment
3586	Measuring and dispensing pumps
3589	Service industry machinery, NEC
3590	Industrial machinery, NEC
3592	Carburetors, pistons, rings and valves
3593	Fluid power cylinders and activators (1987)
3594	Fluid power pumps and motors (1987)
3596	Scales and balances, except laboratory
3599	Industrial machinery, NEC
3600	Electronic and other electric equipment
3610	Electrical distribution equipment
3612	Transformers, except electronic
3613	Switchgear and switchboard apparatus
3620	Electrical industry apparatus
3621	Motor and generators
3622	Industrial controls (DISC. 1987, 3625)
3623	Welding apparatus, electric (DISC. 1987, 3548)
3624	Carbon and graphite products
3625	Relays and industrial controls
3629	Electrical industrial apparatus, NEC
3630	Household appliances
3631	Household cooking equipment
3632	Household refrigerators and freezers
3633	Household laundry equipment
3634	Electrical housewares and fans
3635	Household vacuum cleaners
3636	Sewing machines (DISC. 1987, 3559 or 3639)
3639	Household appliances, NEC

SIC Codes	
SIC Code	**Translation**
3640	Electric lighting and wiring equipment
3641	Electric lamps
3643	Current-carrying wiring devices
3644	Non-current carrying wiring devices
3645	Residential lighting fixtures
3646	Commercial lighting fixtures
3647	Vehicular lighting equipment
3648	Lighting equipment, NEC
3650	Household audio and video equipment
3651	Household audio and video equipment
3652	Pre-recorded records and tapes
3660	Communications equipment
3661	Telephone and telegraph apparatus
3663	Radio and television communications equipment
3669	Communications equipment, NEC (1987)
3670	Electronic components and accessories
3671	Electron tubes
3672	Cathode ray television picture tubes (DISC. 1987, 3671)
3673	Transmitting, industrial and special purpose electron tubes (DISC. 1987, 3671)
3674	Semiconductors and related devices
3675	Electronic capacitors
3676	Electronic resistors
3677	Electronic coils and transformers
3678	Electronic connectors
3679	Electronic components, NEC
3690	Miscellaneous electrical equipment and supplies
3691	Storage batteries
3692	Primary batteries, dry and wet
3693	Radiographic x-ray, fluoroscopic x-ray, therapeutic x-ray
3694	Engine electric equipment
3695	Magnetic and optical recording media (1987)
3699	Electrical equipment and supplies, NEC
3700	Transportation equipment
3710	Motor vehicle equipment
3711	Motor vehicles and car bodies
3713	Truck and bus bodies
3714	Motor vehicle parts and accessories
3715	Truck trailers
3716	Motor homes (1977)
3720	Aircraft and parts
3721	Aircraft
3724	Aircraft engines and engine parts
3728	Aircraft parts and equipment, NEC
3730	Ship and boat building and repairing
3731	Ship building and repairing
3732	Boat building and repairing
3740	Railroad equipment
3743	Railroad equipment
3750	Motorcycles, bicycles and parts
3751	Motorcycles, bicycles and parts
3760	Guided missiles, space vehicles and parts
3761	Guided missiles and space vehicles

SIC Codes	
SIC Code	**Translation**
3764	Space propulsion units and parts
3769	Space vehicle parts and equipment, NEC
3790	Miscellaneous transportation equipment
3792	Travel trailers and campers
3795	Tanks and tank components
3799	Transportation equipment, NEC
3800	Instruments and related products
3810	Search and navigational equipment (1987)
3811	Engineering, laboratory, scientific and research instruments
3812	Search and navigational equipment (1987)
3820	Measuring and controlling devices (1987)
3821	Laboratory apparatus and furniture (1987)
3822	Environmental controls
3823	Process control instruments
3824	Fluid meters and counting devices
3825	Instruments to measure electricity
3826	Analytical instruments (1987)
3827	Optical instruments and lenses (1987)
3829	Measuring and controlling devices, NEC
3830	Optical instruments and lenses (DISC. 1987, 3827)
3832	Optical instruments and lenses (DISC. 1987, 3827)
3840	Medical instruments and supplies
3841	Surgical and medical instruments
3842	Surgical appliances and supplies
3843	Dental equipment and supplies
3844	X-ray apparatus and tubes (1987)
3845	Electromedical equipment (1987)
3850	Ophthalmic goods
3851	Ophthalmic goods
3860	Photographic equipment and supplies
3861	Photographic equipment and supplies
3870	Watches, clocks, watchcases and parts
3873	Watches, clocks, watchcases and parts
3900	Miscellaneous manufacturing industries
3910	Jewelry, silverware and plated ware
3911	Jewelry, precious metal
3914	Silverware and plated ware
3915	Jewelers' materials and lapidary work
3930	Musical instruments
3931	Musical instruments
3940	Toys and sporting goods
3942	Dolls and stuffed toys
3944	Games, toys and children's vehicles
3949	Sporting and athletic goods, NEC
3950	Pens, pencils, office and art supplies
3951	Pens and mechanical pencils
3952	Lead pencils, art goods
3953	Marking devices
3955	Carbon paper and inked ribbons
3960	Costume jewelry and notions
3961	Costume jewelry
3962	Feathers, plumes and artificial trees and flowers (DISC. 1987, 3999)

SIC Codes	
SIC Code	**Translation**
3963	Buttons (DISC. 1987, 3895)
3964	Needles, pins, hooks and eyes and similar notions (DISC. 1987, 3965)
3965	Fasteners, buttons, needles and pins (1987)
3990	Miscellaneous manufactures
3991	Brooms and brushes
3993	Signs and advertising displays
3995	Burial caskets
3996	Hard surface floor coverings, NEC
3999	Manufacturing industries, NEC

Division J – Public Administration

List of SIC Codes for Federal Facilities

SIC Code	Translation
9111	Executive Offices
9121	Legislative Bodies
9131	Executive and Legislative Offices Comind
9199	General Government, Not Elsewhere Classified
9211	Courts
9221	Police Protection
9222	Legal Counsel and Prosecution
9223	Correctional Institutions
9224	Fire Protection
9229	Public Order and Safety, Not Elsewhere Classified
9311	Public Finance, Taxation and Monetary Policy
9411	Administration of Education Programs
9431	Administration of Public Health Programs
9441	Administration of Social, Human Resource and Income Maintenance Programs
9451	Administration of Veterans' Affairs, Except Health and Insurance
9511	Air and Water Resources and Solid Waste Management
9512	Land, Mineral, Wildlife, and Forest Conservation
9531	Administration of housing programs
9532	Administration of Urban Planning and Community and Rural Development
9611	Administration of General Economic Programs
9621	Regulation and Administration of Transportation Programs
9631	Regulation and Administration of Communication, Electric, Gas and Other Utilities
9641	Regulation of Agricultural Marketing and Commodities
9651	Regulation, Licensing, and Inspection of Miscellaneous Commercial Sectors
9661	Space Research and Technology
9721	International affairs
9771	National security

Appendix C

Maximum Amount On-Site

Appendix C: Maximum Amount On-site

The following table identifies the maximum amount range and midpoint for each maximum on-site amount code (01-11).

Maximum Amount On-site Codes			
Code	**Translation**		
01	0	-to-	99
02	100	-to-	999
03	1,000	-to-	9,999
04	10,000	-to-	99,999
05	100,000	-to-	999,999
06	1,000,000	-to-	9,999,999
07	10,000,000	-to-	49,999,999
08	50,000,000	-to-	99,999,999
09	100,000,000	-to-	499,999,999
10	500,000,000	-to-	999,999,999
11	1 billion	-to-	More than 1 billion

Appendix D

Waste Minimization Reason for Action

Appendix D: Waste Minimization Reason for Action

The following tables translate the waste minimization reason for action codes (R1-R5) for Reporting Years 1987 to 1989 and beginning Reporting Year 1990, respectively.

Reporting Years 1987 to 1989:

Waste Minimization Reason for Action Code Reporting Years 1987 – 1989	
Code	**Translation**
R1	Regulatory Requirement of the Waste
R2	Reduction of Treatment/Disposal Costs
R3	Other Process Cost Reduction
R4	Self-initiated Review
R5	Other (e.g., Discontinuation of Product, Occupational Safety, etc.)

Beginning Reporting Year 1990:

Waste Minimization Reason for Action Code Reporting Years 1987 – 1989	
Code	**Translation**
R1	Regulatory Requirement of the Waste
R2	Reduction of Treatment/Disposal Costs
R3	Other Process Cost Reduction
R4	Discontinuation of Product
R5	Other (e.g., Occupation Safety, etc.)

Appendix E

Waste Minimization Type of Modification

Appendix E: Waste Minimization Type of Modification

The following table translates each of the waste minimization modification codes (M1-M8).

Waste Minimization Modification Codes	
Code	**Translation**
M1	Recycling/Reuse On-site
M2	Recycling/Reuse Off-site
M3	Equipment/Technology Modifications
M4	Process Procedure Modifications
M5	Reformulation/Redesign of Product
M6	Substitution of Raw Materials
M7	Improved Housekeeping. Training, Inventory Control
M8	Other Waste Minimization Technique

Appendix F

On-site Recycling Processes

Appendix F: On-site Recycling Processes

The following table translates the on-site recycling process codes (R11-R99).

On-site Recycling Process Codes	
Code	**Translation**
R11	Solvents/Organics Recovery – Batch Still Distillation
R12	Solvents/Organics Recovery – Thin-Film Evaporation
R13	Solvents/Organics Recovery – Fractionation
R14	Solvents/Organics Recovery – Solvent Extraction
R19	Solvents/Organics Recovery – Other
R21	Metals Recovery – Electrolytic
R22	Metals Recovery – Ion Exchange
R23	Metals Recovery – Acid Leaching
R24	Metals Recovery – Reverse Osmosis
R26	Metals Recovery – Solvent Extraction
R27	Metals Recovery – High Temperature
R28	Metals Recovery – Retorting
R29	Metals Recovery – Secondary Smelting
R30	Metals Recovery – Other
R40	Acid Regeneration
R99	Other Reuse or Recovery

Appendix G

Type of Treatment/Disposal

Appendix G: Type of Treatment/Disposal

The following table translates the type treatment disposal codes (M10-M99) for Reporting Years 1987 to 1990, and beginning 1991, respectively.

Reporting Years 1987 to 1990:

Type Treatment/Disposal Code Reporting Years 1987 - 1990	
Code	**Translation**
M10	Storage Only
M20	Reuse as Fuel/Fuel Blending
M40	Solidification/Stabilization
M50	Incineration/Thermal Treatment
M61	Wastewater Treatment (excluding POTW)
M69	Other Treatment
M71	Underground Injection
M72	Landfill/Disposal Surface Impoundment
M73	Land Treatment
M79	Other Land Disposal
M90	Other Off-site Management
M91	Transfer to Waste Broker
M99	Unknown

The following table translates the type treatment disposal codes (M10-M99) for Reporting Years beginning in 1992, to the current year respectively.

Beginning Reporting Year 1991:

Type Treatment/Disposal/Recycling/Energy Recovery Code Beginning Reporting Year 1991	
Code	**Translation**
M10	Storage Only
M20	Solvents/Organics Recovery
M24	Metals Recovery
M26	Other Reuse or Recovery
M28	Acid Regeneration
M40	Solidification/Stabilization
M50	Incineration/Thermal Treatment
M54	Incineration/Insignificant Fuel Value
M56	Energy Recovery
M61	Wastewater Treatment (excluding POTW)
M69	Other Waste Treatment
M71	Underground Injection
M72	Landfill/Disposal Surface Impoundment
M73	Land Treatment
M79	Other Land Disposal
M90	Other Off-Site Management
M92	Transfer to Waste Broker – Energy Recovery
M93	Transfer to Waste Broker – Recycling
M94	Transfer to Waste Broker – Disposal
M95	Transfer to Waste Broker – Waste Treatment
M99	Unknown

Appendix H

Off-site Country Codes

Appendix H: Off-site Country Codes

The following table lists off-site country codes and their corresponding translations. Not all country codes are used in TRIS.

Off-site Country Codes	
Country Code	**Country Name**
AR	Argentina
AS	Australia
AU	Austria
BE	Belgium
BL	Bolivia
BR	Brazil
CA	Canada
CI	Chile
CH	China
CO	Columbia
CS	Costa Rica
CU	Cuba
EC	Ecuador
ES	El Salvador
FI	Finland
FR	France
GM	Germany
GT	Guatemala
HO	Honduras
HK	Hong Kong
EI	Ireland
IT	Italy
JA	Japan
KS	Korea
MX	Mexico
NU	Nicaragua
PM	Panama
PA	Paraguay
PE	Peru
PO	Portugal
SP	Spain
SZ	Switzerland
UK	United Kingdom
UY	Uruguay
VE	Venezuela

Appendix I

Treatment Methods

Appendix I: Treatment Methods

The following tables list treatment method codes and their corresponding translations for Reporting Years 1987 through 1990, and beginning Reporting Year 1991, respectively.

Reporting Years 1987-1990:

Treatment Methods for Reporting Years 1987-1990	
Code	**Translation**
R01	Reuse as Fuel – Industrial Kiln
R02	Reuse as Fuel – Industrial Furnace
R03	Reuse as Fuel – Boiler
R04	Reuse as Fuel – Fuel Blending
R09	Reuse as Fuel – Other
R11	Solvents/Organics Recovery – Batch Still Distillation
R12	Solvents/Organics Recovery – Thin-Film Evaporation
R13	Solvents/Organics Recovery –Fractionation
R14	Solvents/Organics Recovery – Solvent Extraction
R19	Solvents/Organics Recovery – Other
R21	Metals Recovery – Electrolytic
R22	Metals Recovery – Ion Exchange
R23	Metals Recovery – Acid Leaching
R24	Metals Recovery – Reverse Osmosis
R26	Metals Recovery – Solvent Extraction
R29	Metals Recovery – Other
R99	Other Reuse or Recovery
G01	Cement Processes (including Silicates)
G09	Other Pozzolonic Processes (including Silicates)
G11	Asphaltic Processes
G21	Thermoplastic Techniques
G99	Other Solidification Processes
F01	Liquid Injection
F11	Rotary Kiln with Liquid Injection Unit
F19	Other Rotary Kiln
F31	Two Stage
F41	Fixed Hearth
F42	Multiple Hearth
F51	Fluidized Bed
F61	Infra-red
F71	Fume/Vapor
F81	Pyrolytic Destructor
F82	Wet Air Oxidation
F83	Thermal Drying/Dewatering
F99	Other Incineration/Thermal Treatment
P01	Equalization
P09	Other Blending
P11	Settling/Clarification
P12	Filtration
P13	Sludge Dewatering (Non-thermal)
P14	Air Flotation

Treatment Methods for Reporting Years 1987-1990	
Code	**Translation**
P15	Oil Skimming
P16	Emulsion Breaking – Thermal
P17	Emulsion Breaking – Chemical
P18	Emulsion Breaking – Other
P19	Other Liquid Phase Separation
P21	Adsorption – Carbon
P22	Adsorption – Ion Exchange (Other than for Recovery/Reuse)
P23	Adsorption – Resin
P29	Adsorption – Other
P31	Reverse Osmosis (Other than for Recovery/Reuse)
P41	Stripping – Air
P42	Stripping – Steam
P49	Stripping – Other
P51	Acid Leaching (Other than for Recovery/Reuse)
P61	Solvent Extraction (Other than Recovery/Reuse)
P99	Other Physical Treatment
C01	Chemical Precipitation – Lime or Sodium Hydroxide
C02	Chemical Precipitation – Sulfide
C09	Chemical Precipitation – Other
C11	Neutralization
C21	Chromium Reduction
C31	Complexed Metals Treatment (Other than pH adjustment)
C41	Cyanide Oxidation – Alkaline Chlorination
C42	Cyanide Oxidation – Electrochemical
C43	Cyanide Oxidation – Other
C44	General Oxidation (including Disinfection) - Chlorination
C45	General Oxidation (including Disinfection) – Ozonation
C46	General Oxidation (including Disinfection) – Other
C99	Other Chemical Treatment
B11	Biological Treatment – Aerobic
B21	Biological Treatment – Anaerobic
B31	Biological Treatment – Facultative
B99	Biological Treatment – Other
A01	Flare
A02	Condenser
A03	Scrubber
A04	Absorber
A05	Electrostatic Precipitator
A06	Mechanical Separation
A07	Other Air Emission Treatment

Beginning Reporting Year 1991:

Treatment Methods Beginning Reporting Year 1991	
Code	**Translation**
A01	Flare
A02	Condenser
A03	Scrubber
A04	Absorber
A05	Electrostatic Precipitator
A06	Mechanical Separation
A07	Other Air Emission Treatment
B11	Biological Treatment – Aerobic
B21	Biological Treatment – Anaerobic
B31	Biological Treatment – Facultative
B99	Biological Treatment – Other
C01	Chemical Precipitation – Lime or Sodium Hydroxide
C02	Chemical Precipitation – Sulfide
C09	Chemical Precipitation – Other
C11	Neutralization
C21	Chromium Reduction
C31	Complexed Metals Treatment (other than pH adjustment)
C41	Cyanide Oxidation – Alkaline Chlorination
C42	Cyanide Oxidation – Electrochemical
C43	Cyanide Oxidation – Other
C44	General Oxidation (including Disinfection) – Chlorination
C45	General Oxidation (including Disinfection) – Ozonation
C46	General Oxidation (including Disinfection) – Other
C99	Other Chemical Treatment
F01	Liquid Injection
F11	Rotary Kiln with Liquid Injection Unit
F19	Other Rotary Kiln
F31	Two Stage
F41	Fixed Hearth
F42	Multiple Hearth
F51	Fluidized Bed
F61	Infra-red
F71	Fume/Vapor
F81	Pyrolytic Destructor
F82	Wet Air Oxidation
F83	Thermal Drying/Dewatering
F99	Other Incineration/Thermal Treatment
G01	Cement Processes (including Silicates)
G09	Other Pozzolonic Processes (including Silicates)
G11	Asphaltic Processes
G21	Thermoplastic Techniques
G99	Other Solidification Processes
P01	Equalization
P09	Other Blending
P11	Settling/Clarification
P12	Filtration
P13	Sludge Dewatering (Non-Thermal)
P14	Air Flotation
P15	Oil Skimming
P16	Emulsion Breaking – Thermal

Treatment Methods Beginning Reporting Year 1991	
Code	**Translation**
P17	Emulsion Breaking – Chemical
P18	Emulsion Breaking – Other
P19	Other Liquid Phase Separation
P21	Adsorption – Carbon
P22	Adsorption – Ion Exchange (other than for Recovery/Reuse)
P23	Adsorption - Resin
P29	Adsorption - Other
P31	Reverse Osmosis (other than for Recovery/Reuse)
P41	Stripping – Air
P42	Stripping – Stream
P49	Stripping – Other
P51	Acid Leaching (other than for Recovery/Reuse)
P61	Solvent Extraction (other than Recovery/Reuse)
P99	Other Physical Treatment

Appendix J

Source Reduction Activity

Appendix J: Source Reduction Activity

The following table translates the source reduction activity codes (W13-W89).

Source Reduction Activity Codes	
Code	**Translation**
W13	Improved Maintenance Scheduling, Recordkeeping, or Procedures
W14	Changed Production Schedule to Minimize Equipment and Feedstock Changeovers
W19	Other Changes in Operating Practices
W21	Instituted Procedures to Ensure that materials do not Stay in Inventory beyond Shelf-life
W22	Began to Test Outdated Material – Continue to Use if Still Effective
W23	Eliminated Shelf-life Requirements for Stable Material
W24	Instituted Better Labeling Procedures
W25	Instituted Clearinghouse to Exchange Materials that Would Otherwise be Discarded
W29	Other Changes in Inventory Control
W31	Improved Storage or Stacking Procedures
W32	Improved Procedures for Loading, Unloading, and Transfer Operations
W33	Installed Overflow Alarms or Automatic Shutoff Valves
W35	Installed Vapor Recovery Systems
W36	Implemented Inspection or Monitoring Program of Potential Spill or Leak Sources
W39	Other Spill or Leak Prevention
W41	Increased Purity of Raw Materials
W42	Substituted Raw Materials
W49	Other Raw Material Modifications
W51	Instituted Recirculation Within a Process
W52	Modified Equipment, Layout or Piping
W53	Use of Different Process Catalyst
W54	Instituted Better Controls on Operating Bulk Containers to Minimize Discarding of Empty Containers
W55	Changed from Small Volume Containers to Bulk Containers to Minimize Discarding of Empty Containers
W58	Other Process Modifications
W59	Modified Stripping/Cleaning Equipment
W60	Changed to Mechanical Stripping/Cleaning Devices (from Solvents or Other Materials)
W61	Changed to Aqueous Cleaners (from Solvents or Other Materials)
W63	Modified Containment Procedures for Cleaning Units
W64	Improved Draining Procedures
W65	Redesigned Parts Racks to Reduce Dragout
W66	Modified or Installed Rinse Systems
W67	Improved Rinse Equipment Design
W68	Improved Rinse Equipment Operation
W71	Other Cleaning and Degreasing Modifications
W72	Modified Spray Systems or Equipment
W73	Substituted Coating Materials Used
W74	Improved Application Techniques
W75	Changed from Spray to Other System
W78	Other Surface Preparation and Finishing Modifications
W81	Changed Product Specifications
W82	Modified Design or Composition of Product
W83	Modified Packaging
W89	Other Product Modifications

Appendix K

Activity Use Codes

Appendix K: Activity Use Codes

This table defines the codes used to indicate the activity or use of the chemical at the facility.

Activity Use Codes	
Code	**Translation**
1A	Produce
1B	Import
1C	For on-site use/processing
1D	For sale/distribution
1E	As a byproduct
1F	As an impurity
2A	As a reactant
2B	As a formulation component
2C	As an article component
2D	Repackaging
3A	As a chemical processing aid
3B	As a manufacturing aid
3C	Ancillary or other use

Appendix L

Preferred Collection Method Codes

Appendix L: Preferred Collection Method Codes

This table defines the codes to determine latitude and longitude.

Preferred Collection Method Codes	
Code	**Translation**
A1	Address Matching – House Number
A2	Address Matching – Block Face
A3	Address Matching – Street Centerline
A4	Address Matching – Nearest Intersection
A5	Address Matching – Primary Name
A6	Address Matching – Digitized
A0	Address Matching – Other
C1	Census Block – 1990 – Centroid
C2	Census Block/Group – 1990 – Centroid
C3	Census Block Tract – 1990 – Centroid
C0	Census – Other
G1	GPS Carrier Phase Static Relative Position Technique
G2	GPS Carrier Phase Kinematic Relative Positioning Technique
G3	GPS Code Measurements (Pseudo Range) Differential (DGPS)
G4	GPS Code Measurements (Pseudo Range) Precise Positioning Service
G5	GPS Code Measurements (Pseudo Range) Standard Positioning Service SA off
G6	GPS Code Measurements (Pseudo Range) Standard Positioning Service SA on
I1	Interpolation – Map
I2	Interpolation – Photo
I3	Interpolation – Satellite
I0	Interpolation – Other
L1	Loran C
P1	Public – Land – Survey – Quartering
P2	Public – Land – Survey – Footing
S1	Classical Surveying Techniques
Z1	Zip code – Centroid
UN	Unknown

Attachment 1

TRIS Data Elements (by data element name)

TRIS Data Elements (by data element name)

Element Name	Group	Index? (Y//N)	Enf. Sens? (Y/S/N)	Data Type	Length	Name
AUCD(K)	ACTY	Y	N	Char	2	Activity Use Code
CBFI	RELSE	N	N	Char	2	Controlled by Facility Indicator
CHEMGRP	SUBM	Y	N	Char	1	Chemical Group (A, C, M or O)
CREL	RELSE	Y	N	Char	1	Release Medium
CRELMR	RELSE	*Y*	*N*	*Char*	*2*	*Release Medium /Estimate*
CRSN	CHEM	Y	N	Num	9	CAS (Chemical Abstracts Service) Number
CSFC	FACL	Y	N	Num	5	State/County FIPS Code
CTSI	CHEM	Y	N	Char	1	Chemical Trade Secret Indicator
CYRNA	RRACT	N	N	Char	1	Current Year Zero NA
CYRQ	RRACT	N	N	Num	13	Current Year Quantity
DCNO	CHEM	Y	N	Char	15	Doc Control Number
DUNSNUM	SUBM	Y	N	Char	9	Dun & Bradstreet Number
ENRGYCD	CHEM	*Y*	*N*	*Char*	*3*	*Energy Onsite Process Codes Index*
ENRGYON	CHEM	Y	N	Char	15	Energy Onsite Process Codes
FLAT	FACL	Y	N	Num	5	Facility Latitude
FORMTYP	CHEM	Y	N	Char	1	Form Type (C or R)
FYRNA	RRACT	N	N	Char	1	Following Year NA
FYRQ	RRACT	N	N	Num	13	Following Year Quantity
HCIT	HFACL	Y	N	Char	25	Historical Facility City
HCNY	HFACL	N	N	Char	25	Historical Facility County
HFRG	HFACL	Y	N	Char	2	Historical Facility Region
HHASH	HFACL	Y	N	Char	100	Hash for Facility Name
HHASHWD	HFACL	*Y*	*N*	*Char*	*4*	*Hash Index for Facility Name*
HNME	HFACL	Y	N	Char	50	Historical Facility Name
HRPYR	HFACL	Y	N	Num	4	Historical Location Reporting Year
HSEQ(K)	HFACL	Y	N	Num	4	Historical Facility Sequence Number
HSTATE	HFACL	Y	N	Char	2	Historical Facility State
HSTR	HFACL	N	N	Char	40	Historical Facility Street
HZIP	HFACL	Y	N	Num	5	Historical Facility Zip, Digits 1-5
HZP2	HFACL	Y	N	Num	4	Historical Facility Zip, Digits 6-9
LDCD	RELSE	N	N	Char	3	Land Disposal Code
LOCN	FACL	*Y*	*N*	*Num*	*8*	*Facility Longitude/Latitude*
LONG	FACL	Y	N	Num	5	Facility Longitude
MAXC	CHEM	N	N	Char	2	Maximum Amount Code
METH	TRTMT	*Y*	*N*	*Char*	*3*	*Waste Treatment Method Index*
METHODS	TRTMT	Y	N	Char	31	Waste Treatment Method
MIXC	CHEM	N	N	Char	70	Mixture Comp Identifier
MREST	RELSE	Y	N	Num	11	Release Estimate by Release Medium
NAME	CHEM	N	N	Char	70	Chemical Name
NPDES	SUBM	Y	N	Char	9	PCS NPDES Number
ODIS	RELSE	N	N	Char	2	Transfer Site Code
OPID	TRTMT	N	N	Char	2	Operating Data Indicator
PCOLL	FACL	N	N	Char	2	Preferred Collection Method
PCTC	CHEM	Y	N	Num	5	Waste Min Percent Change
PCTN	CHEM	N	N	Char	1	Waste Min Percent Change NA
PLAT	FACL	Y	N	Num	5	Preferred Facility Latitude
PLOCN	FACL	*Y*	*N*	*Num*	*8*	*Preferred Facility Longitude/Latitude*
PLONG	FACL	Y	N	Num	5	Preferred Facility Longitude
PPADATA	CHEM	N	N	Char	1	Additional PPA Data Indicator
PWTA	RELSE	N	N	Num	5	Storm Water Percentage
PYRNA	RRACT	N	N	Char	1	Previous Year Zero NA
PYRQ	RRACT	N	N	Num	13	Previous Year Quantity
RCRID	SUBM	Y	N	Char	12	RCRIS Handler ID
RCYCACT	CHEM	Y	N	Num	6	Recycling Activity Index

TRIS Data Elements (by data element name)

Element Name	Group	Index? (Y//N)	Enf. Sens? (Y/S/N)	Data Type	Length	Name
RCYCANA	CHEM	N	N	Char	1	Recycling Activity Index Zero NA
RCYCLON	CHEM	Y	N	Char	39	Recycled Onsite Process Codes
REBC	RELSE	N	N	Char	2	Release Estimate Basis Code
RECYCLCD	CHEM	*Y*	*N*	*Char*	*3*	*Recycled Onsite Process Codes Index*
RELAIR	SUBM	Y	N	Num	11	Total Releases for CREL 1-2
RELALL	SUBM	Y	N	Num	11	Total Releases for 1-8
RELAW	SUBM	Y	N	Num	11	Total Releases for CREL 1-3
RELFUGI	SUBM	Y	N	Num	11	Total Releases for CREL 1
RELLAND	SUBM	Y	N	Num	11	Total Releases for CREL 5
RELOFFS	SUBM	Y	N	Num	11	Total Releases for CREL 7
RELONS	SUBM	Y	N	Num	11	Total Releases for CREL 1-5
RELPNT	SUBM	Y	N	Num	11	Total Releases for CREL 2
RELUNGR	SUBM	Y	N	Num	11	Total Releases for CREL 4
RELWATR	SUBM	Y	N	Num	11	Total Releases for CREL 3
RENA	RELSE	N	N	Char	1	Release Estimate N/A
REPOTW	SUBM	Y	N	Num	11	Total Releases for CREL 6 & 8
REST	RELSE	Y	N	Num	11	Release Estimate
RFEF	CHEM	N	N	Char	1	Reporting for Entire Facility
RICT	TRTMT	N	N	Char	2	Waste Influent Concentration Code
RMRLSNA	CHEM	N	N	Char	1	Remedial Release Zero NA
RMRLSQN	CHEM	N	N	Num	13	Remedial Release Quantity
RPYR	DCNO	Y	N	Num	4	Reporting Year
RSEQ(K)	RELSE	N	N	Num	4	Sequence Number
RTRS	RELSE	N	N	Char	1	Release Transfer Record Status
RYSS	CHEM	*Y*	*N*	*Char*	*3*	*Reporting Year/Submission Status*
SETR	TRTMT	N	N	Char	2	Waste Sequence Treatment Indicator
SIC1ST	SUBM	Y	N	Num	5	First SIC Code for Year
SICD	SUBM	Y	N	Num	5	SIC Code
SPNA	RELSE	N	N	Char	1	Storm Water Percentage N/A
SPNM	HFACL	*Y*	*N*	*Char*	*15*	*Historical Facility Name Index*
SRDRCYC (K)	RRACT	Y	N	Char	25	Source Release Reduction Activities
STCD	RELSE	N	N	Char	1	Stream Code
STNAME	RELSE	N	N	Char	70	Stream Name
STSI	CHEM	Y	N	Char	1	Submission Trade Secret Indicator
SUBS	CHEM	Y	N	Char	1	Submission Status
SUBSEQ(K)	SUBM	Y	N	Num	2	Submission Sequence Number
SUBYEAR (K)	SUBM	Y	N	Num	4	Submissions Year
SYRNA	RRACT	N	N	Char	1	Second Year NA
SYRQ	RRACT	N	N	Num	13	Second Year Quantity
TCID	DCNO	Y	N	Char	9	TRI Chemical ID
TCIDIND	CHEM	N		Num	4	Index to TCID Table
TCIDSEQ	DCNO	N	N	Num	2	Year/TCID Sequence Number
TECHNAM	SUBM	N	N	Char	45	Technical Contact Name
TECHNUM	SUBM	N	N	Char	10	Technical Contact Phone Number
TEPA	RELSE	Y	N	Char	12	Transfer EPA ID Number
TFID	TFID	Y	N	Char	15	TRIS Facility ID
TOFFSID	RELSE	N	N	Char	15	Transfer Offsite ID Number
TRANSNR	SUBM	Y	N	Num	11	TRANSRR less Recycled/Recovered amounts in CREL 7
TRANSRR	SUBM	Y	N	Num	11	Total Releases for CREL 6-8
TRDSPSL	SUBM	Y	N	Num	11	Total Transfers for Disposal
TREE	TRTMT	Y	N	Num	5	Waste Treatment Efficiency Estimate
TREN	TRTMT	N	N	Char	1	Waste Treatment Efficiency Estimate NA
TRENREC	SUBM	Y	N	Num	11	Total Transfers for Energy Recovery
TREST	CHEM	Y	N	Num	13	Total Release Estimate
TRMT	RELSE	Y	N	Char	3	Type of Treatment

TRIS Data Elements (by data element name)

Element Name	Group	Index? (Y//N)	Enf. Sens? (Y/S/N)	Data Type	Length	Name
TRNG	RELSE	Y	N	Char	2	Release Emissions Range Code
TROTHER	SUBM	Y	N	Num	11	Total Other Off-site Transfers
TRRECYC	SUBM	Y	N	Num	11	Total Transfers for Recycling
TRST	TRTMT	N	N	Char	1	Treatment Record Status
TRTREAT	SUBM	Y	N	Num	11	Total Transfers for Treatment
TSCITY	RELSE	N	N	Char	25	Transfer Site City
TSCNTRY	RELSE	N	N	Char	3	Transfer Site Country
TSCOUNT	RELSE	N	N	Char	25	Transfer Site County
TSEQ(K)	TRTMT	N	N	Num	3	Sequence Number
TSNAME1	RELSE	N	N	Char	30	Transfer Site Name 1
TSNAME2	RELSE	N	N	Char	30	Transfer Site Name 2
TSSTATE	RELSE	N	N	Char	2	Transfer Site State
TSSTRT1	RELSE	N	N	Char	30	Transfer Site Street 1
TSSTRT2	RELSE	N	N	Char	30	Transfer Site Street 2
TSZIPCD	RELSE	N	N	Char	9	Transfer Site Zip Code
TWSTGEN	SUBM	Y	N	Num	13	Total Waste Generated
UICID	SUBM	Y	N	Char	12	UIC Identification Number
UICODE	RELSE	Y	N	Char	3	Underground Injection Code
WECD	TRTMT	N	N	Char	2	Wastestream Code
WMAC	CHEM	N	N	Char	2	Waste Min Action Code
WMCD	CHEM	N	N	Char	2	Waste Min Code
WMCN	CHEM	N	N	Char	1	Waste Min Current Year Quantity NA
WMCY	CHEM	Y	N	Num	13	Waste Min Current Year Quantity
WMIN	CHEM	N	N	Num	2	Waste Min Index
WMNA	CHEM	N	N	Char	1	Waste Min Index NA
WMPN	CHEM	N	N	Char	1	Waste Min Prior Year Quantity NA
WMPY	CHEM	N	N	Num	13	Waste Min Prior Year Quantity